Department of Computer Science and Engineering

Subject: Design and Analysis of Algorithms
Subject Code: CSE 353
Class: TE

Course Outcomes (COs)

- Students got the idea to build a solid foundation of the most important fundamental subject.
- Students understood the paradigms and approaches used to analyze and design algorithms and to appreciate the impact of algorithm design and practice.
- Students understood how to measure performance of an algorithm.
- Students understand and Learn the Algorithm and programming of Searching and Sorting Methods and implementation of these algorithms using Divide and Conquer Algorithm.
- Students understood the Greedy Methods using Knapsack problem, Huffman coding and Single source shortest path with Learn Dynamic Programming: Tree traversal and graph traversal technique.
- Students understood the Backtracking Method and Implementation of Concept of Branch and Bound technique.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Design and Analysis of Algorithms
Subject Code: CSE353
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Algorithm: characteristics, specifications, Writing Pseudo-Code
- Students understood the Frequency count and its importance in analysis of an algorithm.
- Students understood the Asymptotic Notations: Time complexity & Space complexity of an algorithm, Big 'O', '' & 'Ω' notations, Best, Worst and Average case analysis of an algorithm.
- Students understood the Analysis of searching algorithms: sequential, binary search, bubble, insertion, selection, heap sort.
- Students understood the Analysis of each sorting technique for best, worst and average case, Concept of Internal &External sorting.
- Students understood the Divide and conquer: basic algorithm and characteristics.
- Students understood the Binary Search: method and analysis of binary search for best, worst and average case for searches.
- Students understood the Quick Sort, Merge Sort: method and analysis of algorithms
- Students understood the Finding the largest and smallest number in a list using DnC.
- Students got the idea of Greedy Method: basic algorithm and characteristics.
- Students got the idea of Fractional Knapsack Problem solving using greedy method, Optimal merge patterns and optimal storage on tapes.
- Students understood the Job sequencing with deadlines, Huffman Coding: greedy method
- Students understood the Minimum cost spanning trees: Prim's and Kruskal's Algorithm
- Students understood the Single source shortest path
- Students understood the Dynamic Programming Method: basic algorithm and characteristics.
- Students understood the 0/1 Knapsack Problem solving using DP method, Multistage graphs, All pair shortest Path.
- Students understood the Optimal binary search trees, Travelling salesperson problem.
- Students understood the Tree traversal techniques, Graph traversal techniques: DFS,BFS
- Students understood the Connected components, Bi-connected components & spanning trees
- Students got the idea of Backtracking Method: basic algorithm and characteristics.
- Students got the idea of Solving n-queens problem, Sum of subsets problem
- Students understood the Graph colouring, Hamiltonian cycle (TSP)
- Students understood the Branch and bound: basic algorithm and characteristics.
- Students understood the Solving n-queens using branch & bound
- Students understood the FIFO Branch and Bound & Least Cost Branch & Bound
- Students got the idea of Least Cost Search
- Students got the idea of 15-puzzle
- Students understood the Solving Travelling salesperson problem using branch & bound

International Centre of Excellence in Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Theory of Computation
Subject Code: CSE 302
Class: TE

Course Outcomes (COs)

- Students understood the fundamental concepts of formal languages, grammars and automata theory.
- Students got the idea to study and develop fundamentals for computational theory.
- Students understood the abstract models for solving problems in computing.
- Students understood the differences between decidability and un-decidability.
- Students understood the impart details knowledge about different types of Automata and their applications in compiler construction.
- Students understood the analysis and calculation skill amongst the students.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Theory of Computation
Subject Code: CSE302
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Finite Automata, Structural representation, Automata and complexity.
- Students got the knowledge of Classification of languages, Central Concepts of Automata Theory, Deterministic Finite Automata,
- Students understood the Nondeterministic Finite automata, FA with epsilon transitions, Applications of FA, FA with output :Moore and Mealy machine
- Students understood the Regular Expressions, Finite automata and Regular Expression, Algebraic laws for RE.
- Students got the knowledge of Ardens theorem,Pumping lemma for Regular languages.
  Students got the knowledge of Applications of pumping lemma, Closure and Design
- Students understood the Properties of regular languages, Equivalence and minimization of Automata, Applications of Regular Expressions.
- Students understood the Context Free Grammars, Parse trees, Applications of CFG, Ambiguity in grammars and languages,
- Students understood the Normal Forms for CFG: Chomsky Normal Form
- Students understood the Pushdown Automata – Definition, Languages of PDA, Acceptance by Empty Stack and Final State,
- Students understood the Equivalence of PDA and CFG , Deterministic Pushdown Automata, Pumping lemma for CFL.
- Students understood the model of linear bounded Automata.
- Students understood the Turing machine – Notation for TM, Instantaneous description for TM , Transition diagram for TM,
- Students understood the language of a TM, Design of Turing Machines, Church Turing Thesis, TM and halting,
- Students understood the Extensions to the basic TM: Multitape TM, Nondeterministic TM, Universal TM.
- Students understood the Decidable problems, Decidable problems concerning Regular Language, Undecidable Problems,
- Students understood the Simple Un-decidable Problem: Post Correspondence Problem, Intractable Problems: Classes P and NP

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Software Development Lab - II
Subject Code: CSE 377
Class: TE

Course Outcomes (COs)

- Student understood the difference between android and other mobile development platform.
- Student understood the how android app work through life cycle, intents, manifests etc.
- Student understood the different android app with compelling user interfaces using menus, layouts and Views.
- Student understood the use of android API for data storage, retrieval, content providers, SMS and Telephony.
- Student understood the Tap into location based services and different sensors.
- Student understood the overall working of mobile operating system.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Artificial Intelligence (Elective-II)
Subject Code: CSE392
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Introduction to AI, Foundation of AI, History, AI Techniques, AI Problems, Production systems, Problem characteristics, Production System Characteristics, Issues in the Design of Search Problems.
- Students understood the Heuristic search, Hill Climbing, Best firth search
- Students understood the Problem Reduction, Means-Ends Analysis.
- Students understood the Representations and Mapping, Knowledge Representation, issues in Knowledge Representation.
- Students understood the Representing simple facts in logic, representing instance
- Students got the idea of ISA relationships, Computable functions and predicates.
- Students understood the Procedural Versus Declarative Knowledge, Logic Programming, Forward and backward reasoning, Forward and backward.
- Students got the idea of Matching, Control Knowledge, Nonmonotonic reasoning, Logics for Nonmonotonic reasoning.
- Students understood the Truth Maintenance Systems, Probability and Bayes'Theorem, Certainty Factors and Rule-Based Systems.
- Students understood the Bayesian Networks, Fuzzy Logic.
- Students understood the Planning: Introduction, An example domain: The blocks world, component of planning system,goal stack planning, nonlinear planning using constraint pasting, hierarchical planning,Reactive system.
- Students understood the Game playing: Min max search procedure, Alpha-Beta cutoffs.
- Students understood the Natural Language Processing: introduction, Symantic Processing, Semantic Analysis, Discourse and Pragmatic Processing.
- Students understood the learning, Rote learning, learning by taking advice, learning in problem solving.
- Students got the idea of learning from examples: Induction, explanation based learning , Representing and using Domain knowledge.
- Students understood the Architecture of expert systems, knowledge acquisition.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of computer Science and Engineering

Subject: Artificial Intelligence

Subject Code: CSE 392

Class: TE

Course Outcomes (COs)

- Student understood the Study the concepts of Artificial Intelligence.
- Student understood the role of searching and sorting algorithms in artificial intelligence.
- Student understood the Learn a methods of solving problems using Artificial Intelligence.
- Student understood the implement of concepts of Artificial Intelligence using Prolog and predicate logic.
- Student understood the Introduce a concepts of Expert Systems and machine learning.
- Student understood the be familiar with the applicability, strengths, and weaknesses of the basic knowledge representation, problem solving, machine learning, knowledge acquisition and learning methods in solving particular engineering problems.

International Centre of Excellence In Engg. & MGMT. * Aurangabad *

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Communication Skill-II
Subject Code: BSH305
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Self-Assessment: Understanding Self Core Competency (SWOT/SWOC)
- Students understood the Long term and short-term Goal Setting
- Students understood the Execution Skills
- Students got the idea Interpersonal Communication
- Students understood the Conflict Management
- Students understood the Problem Solving
- Students understood the Decision Making
- Students got the idea Persuasion and Influence
- Students understood the Group Vs Team
- Students understood the Team Building
- Students understood the Team Work
- Students got the idea Developing Leadership Skills
- Students understood the Clothing Etiquette, Personal hygiene and grooming
- Students understood the Time Management
- Students got the idea of Influencing Skills (Impression)
- Students understood the Balancing personal and professional Life
- Students understood the Ethics, Values and Laws

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Communication Skill - II
Subject Code: CSE 305
Class: TE

Course Outcomes (COs)

- Student understood the To imbibe leadership skills
- Students understood how to develop interpersonal Skills
- Students understood the idea of how to introduce corporate etiquettes
- Student understood the how to imbibe team skills
- Students understood the idea of how to develop written communication skills
- Students understood the idea of how to develop oral communication skills

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of computer Science and Engineering

Subject: System Programming

Subject Code: CSE 354

Class: TE

Course Outcomes (COs)

- Student understood the basic of System programming
- Student got the idea how to analyze the various Concept of Assembler.
- Student Understand what Macro Language is and how to define Macro.
- Student got the idea of how to Linker and Loader works.
- Students understtod the concept of the different techniques used in parsing.
- Students understood the various phases of compiler and compare its working with assembler

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Systems Programming
Subject Code: CSE354
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Concept, historical development,components of system software, life cycle of source program,programming languages and language processors.
- Students understood the fundamentals of language processing, symbol table, foundation of system software.
- Students understood the General design procedure, design the assembler, types of assemblers, one pass assembler, advanced assembly process, design of two pass assembler
- Students understood the Macro instructions, features of macro facility, macro instruction arguments, conditional macro expansion, macro call within macros, macro instruction defining macros
- Students understood the Implementation- Implementation of restricted faculty : two pass algorithm, single pass algorithm
- Students understood the implementation of macro calls within macros, implementation within assembler.
- Students understood the Loaders scheme : "compile and go loaders", general loader schemes, absolute loaders,
- Students understood the subroutine linkages, relocating loaders, direct linking loaders, other loader schemes, binders
- Students understood the linking loaders overlays, dynamic binders.
- Students got the idea of Design of absolute loaders, design of direct linking loaders, linkers vs. loaders.
- Students understood the Programming language grammar, classification of grammar, ambiguity in grammatic specification, scanning, parsing, top down and bottom up parsing, language processor development tools
- Students understood the Causes of large semantic gap, binding and binding times, data structure used in compiling scope rules, memory allocation, compilation of expression, compilation of control structure, code optimization.
- Students understood the Benefits of interpretation, overview of interpretation, classification of debuggers.
- Students got the idea of dynamic/interactive debugger.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Software Development Lab - I
Subject Code: CSE 326
Class: TE

Course Outcomes (COs)

- Students understood the idea of learn ASP.net
- Students understood the idea of learn C# features
- Students got the idea of Performing database operations using ADO.Net and exception handling
- Students got the idea of learning different server controls of asp.net
- Students got the idea of To learn navigation, session, cookies, event handling
- Students understood the idea of learning web services

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Lab IV Software Development Lab I (ASP .NET using C#)
Subject Code: CSE326
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Visual Studio IDE,ASP .NET & the .NET Framework, Introduction to C#, Data
- Students understood the Types, Variables and expressions, control statements , functions, namespaces, Assembly, Components of Assembly, Private and Shared Assembly
- Students got the idea of Web Applications, ASP.NET page lifecycle, Server Side Controls, Client Side Controls,
- Students got the idea of Basic Controls ,Validation Controls , Master &Content Pages in ASP .NET
- Students understood the Navigation Controls, State management techniques - Session , Query string, Cookies, View State
- Students understood the Event Handling, Creating and deploying web services, Deployment of Web Application.
- Students understood the ADO.NET, Static and Dynamic Data Binding, ADO.NET architecture, data control, data source control.
- Students understood the Introduction to Language Integrated Query (LINQ), Querying a Database with LINQ,
- Students understood the The Programming Model - The Evolution of SharePoint Programming, Challenges with CSOM in SharePoint 2010.
- Students understood the Challenges with Server-Side Code.
- Students understood the Deployment Scenarios - On-Premise Deployment, Office 365 Deployment, Hosted Deployment, Hybrid Deployment.
- Students understood the The App Model - SharePoint-Hosted Apps, Provider-Hosted Apps, Azure Auto-Hosted Apps.
- Students got the idea of Enterprise Content Management - Site Policies, Managed Meta Data.
- Students got the idea of Web Content Management, Search - The Structural Publishing Model, The Dynamic Publishing Model,
- Students got the idea of Taxonomy-Driven Navigation, Term-Driven Publishing Pages, Cross-Site Publishing, Hostname Site.

International Centre of Excellence In Engg. & MGMT. * Aurangabad *

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Digital Image Processing
Subject Code: CSE 342
Class: TE

Course Outcomes (COs)

- Students understood the impart of fundamental knowledge of Image and its processing.
- Students understood the digital image processing beyond the fundamental level.
- Students understood the concept of complete digital image processing steps.
- Students got the idea of how to choose appropriate image processing algorithm to achieve desired result.
- Students understood how to properly implement DIP algorithms using modern computing tools such as MATLAB, interpret and present the results
- Students got the idea of how to recognize patterns using highly modern and sophisticated software's.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Digital Image Processing (Elective-I)
Subject Code: CSE342
Class: TE

Program specific Outcomes (PSOs)

- Students got the idea of Image, Pixel, and Digital image
- Students understood the Fundamental Steps and Components of Digital Image Processing
- Students understood the Brightness adaption and discrimination and Image sensing and Acquisition
- Students understood the Image Sampling and Quantization: Basic Concepts in Sampling and Quantization, Representing Digital images, Spatial and intensity resolution
- Students understood the Relationships between pixels: Neighbors of a Pixel, Adjacency, Connectivity, Regions and Boundaries, Distance Measures.
- Students understood the Basic Intensity Transformation: Image Negatives, Log transformation, Power law Transformation, Piecewise Linear Transformation
- Students understood the Histogram processing, Discrete Fourier transform (DFT), DCT, Walsh Hadamard Transform.
- Students got the idea of Mean filters, Non-linear (Order Statistic) spatial filters.
- Students understood the Sharpening spatial Filters Masking, High-Boost Filtering.
- Students got the idea of Image Enhancement by Frequency domain methods.
- Students got the idea of Frequency Domain low pass (Smoothing) and high pass (Sharpening) Filters.
- Students understood the Fundamentals Coding Redundancy, Spatial and Temporal (Interpixel) Redundancy, Irrelevant Information (Psychovisual Redundancy)
- Students understood the Losssless Compression Methods: Huffman coding, LZW coding, Run length coding, Lossy Compression Techniques: Block transform Coding
- Students understood the Image File Formats: BMP, GIF, TIFF
- Students understood the Image Compression Standards: Binary Image Compression Standards, Continuous Tone Still Image Compression Standards
- Students understood the Fundamentals: Point, Line, Edge Detection, Detection of Isolated Points, Line Detection Edge Models, Basic Edge detection, Canny edge detector
- Students understood the Thresholding: Optimal global thresholding, Multiple thresholds, Multivariable Thresholding.
- Students understood the Region-based Segmentation Methods: Region Growing, Region Splitting and Merging,
- Students understood the Segmentation using Morphological watersheds Morphological Image processing: Preliminaries, Erosion and dilation, opening and closing
- Students got the idea of Hit-or-Miss Transformation, Color Image processing: Color Fundamentals and color models, Basics of Full color image processing, Color transformations
- Students understood the Object Recognition: Patterns and pattern Classes.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of Excellence In Engg. & MGMT. Aurangabad

Department of Computer Science and Engineering

Subject: Computer Network Architecture and Protocol
Subject Code: CSE 341
Class: TE

Course Outcomes (COs)

- Students understood the fundamental concepts of computer networking and functionality of layered network architecture.
- Students understood the wireless and mobile networking concepts
- Students understood the idea of how to apply networking concepts to various situations, classification networks, analyzing performance of computer network infrastructure.
- Students understood how to learn recent development in network like IPv4 & IPv6.
- Students understood the concept of network in internet of things (IOT).
- Students understood and analyze the network problems and learn methods to rectify them.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Computer Network Architecture and Protocols (Elective-I)
Subject Code: CSE341
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Design issues, IPv4, Problems with IPv4.
- Students understood the strategies to bridge the limitations IP subnetting, CIDR.
- Students understood the DHCP, NAT, Network design with CIDR, IPv6.
- Students understood the Routing algorithms.
- Students got the idea of Unicast protocols: RIP, EIGRP, OSPF
- Students got the idea of Unicast protocols BGP and multicast routing protocols,ICMP, IGMP, DHCP
- Students got the idea of Services, Transport layer protocols,
- Students got the idea of UDP, TCP,
- Students got the idea of SCTP: State Transition diagram, flow control,
- Students got the idea of Unicast protocols error control, socket programming
- Students understood the Design goals, Problems, Architecture and ATM Switching,
- Students understood the ATM layers, Congestion Control and Quality of Service, ATM LAN's, LAN Architecture, LAN Emulation.
- Students understood the client server model.
- Students understood the Link Layer: IEEE 802.
- Students understood the 11 WLAN protocols, CSMA/CA,
- Students understood the Wireless Application Protocol, Routing
- Students got the idea of Protocols & Location Awareness Strategies in Wireless Networks, Resource Students got the idea Allocation management in Wireless Networks, TCP over wireless network.
- Students got the idea of Traditional Applications Telnet, SSH
- Students got the idea of SNMP: SMI, MIB
- Students understood the Multimedia: RTP, RTTP, VOIP, SIP, H.323.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Programming in JAVA
Subject Code: CSE 304
Class: TE

Course Outcomes (COs)

- Students understood the details of Java programming and its application in real world.
- Students understood the idea of how to apply object oriented features to real time entities.
- Students got the idea of Handle exceptions & implement multithreaded programs.
- Students understood to implement database programming.
- Students understood the idea of Design & implement GUI with event handling
- Students understood the idea of Develop I/O & networking programs.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Programming in Java
Subject Code: CSE304
Class: TE

Program specific Outcomes (PSOs)

- Students understood the Features of Java, Java Virtual Machine, Byte Code, and JIT Compiler.
- Students understood the Class fundamentals, declaring objects, Nested and Inner Classes, Introducing Methods, Constructors, Garbage Collection.
- Students understood the Overloading Methods, Using Objects as Parameters. Understanding static.
- Students understood the Inheritance Basics, Using Super, Method Overriding, Abstract Classes, Using final keyword with inheritance.
- Students understood the Arrays, Vectors, Strings, Wrapper classes.
- Students understood the Packages: Defining a Package, Finding Packages and CLASSPATH, A Short Package Example, Access Protection, Importing Packages
- Study of java.lang & java.util packages
- Students understood the Interfaces: Defining an Interface, Implementing Interfaces, Variables in Interfaces, Extending Interfaces,
- Students understood the Exception handling fundamentals, Exception Types, Using try-catch, Multiple try-catch clauses, Built-in Exceptions, creating your own exception subclasses.
- Students understood the The Java Thread Model, The Main Thread, Creating a Thread, Creating Multiple Threads,
- Students understood the Introduction, Types of JDBC Drivers , Driver interface & Driver Manager Interface , Statement Interface, Prepared Statement , Result Set,
- Students understood the JDBC Program for executing Statements & processing ResultSet ,Using Prepared Statement
- Students understood the Applet: Applet Basics, An Applet Skeleton, Simple Applet Display Methods, Using the Status Window,
Students understood the HTML APPLET Tag, Passing Parameters to Applets
- Students understood the Event Handling: The Delegation Event Model, Event Classes, Sources of Events, Event Listener Interfaces, Handling Mouse and Keyboard Events, Adapter Classes
- Students understood the Introduction to AWT, AWT classes, Window, Creating a Frame Window in an Applet, Working with Graphics
- Students understood the Input /Output: I/O Basics, Reading Console Input, Writing Console Output, The Print Writer Class, Reading and Writing Files, The Stream Classes, The Byte Streams, The Character Streams, Object Serialization & deserialization
- Students understood the Networking: Networking Basics, The Networking Classes and Interfaces, TCP/IP Client Sockets, TCP/IP Server Sockets, Datagrams

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: DBMS
Subject Code: CSE 303
Class: TE

Course Outcomes (COs)

- To Understand and the different issues in the design and implementation of a Database System.
- To design and build Simple Database system.
- To Learn Relational Model, Relational model constraints and Relational database design using ER to relational mapping.
- To Understand the concept of Relational algebra, SQL Language.
- Student will be able to know the concept of functional Dependencies and Normalization.
- Student will be able to know transaction management, processing.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad

Department of Computer Science and Engineering

Subject: Advance java
Subject Code: CSE 351
Class: TE

Course Outcomes (COs)

- To make student to learn the major applications areas of Advance java.
- To get acquainted with the knowledge about web applications design and development using servlet .
- To get acquainted with the knowledge about web application design and development using server pages.
- To make the student acquainted withEJB:
- To make student able to design,development and deploy web services over the internet.
- To make students learn the concept of MVC based applications using struts.

International Centre of Excellence In Engg. & MGMT. Aurangabad

CAMPUS DIRECTOR
International Centre of
Excellence In Engg. & MGMT.
Aurangabad