

Bhujbal Knowledge City

Institute of Engineering

Department of Information Technology

Course Outcomes

SEIT Course-2015		
SEMESTER-I		
SEIT Course-2015	СО	Course Outcomes
24.4444 DISCRETE	214441.1 (CO1)	Use set, relation and function to formulate a problem and solve it.
214441: DISCRETE STRUCTURES	214441.2 (CO2)	Use graph theory and trees to formulate the Problems and solve them
	214441.3 (CO3)	Use mathematical propositions and proof Techniques to check the truthfulness of a real life situation.
	214442.1 (CO1)	Solve problems based on computer arithmetic.
	214442.2 (CO2)	Explain processor structure& its functions.
214442:COMPUTER ORGANIZATION &ARCHITECTURE	214442.3 (CO3)	Obtain knowledge about micro-programming of a processor
AARCHIIECIUKE	214442.4 (CO4)	Understand concepts related to memory &IO organization.
	214442.5 (CO5)	Acquire knowledge about instruction level parallelism & parallel organization of multi- processors & multi core systems.
	214443.1 (CO1)	Spectacle an awareness and apply knowledge of number systems, codes, Boolean algebra and use necessary A.C, D.C Loading characteristics as well as functioning while designing with logic gates.
214443 : DIGITAL	214443.2 (CO2)	Use logic function representation for simplification with K-Maps and analyze as well as design Combinational logic circuits using SSI & MSI chips.
ELECTRONICSAND LOGIC DESIGN	214443.3 (CO3)	Analyze Sequential circuits like Flip-Flops(Truth Table, Excitation table), their conversion & design the applications.
	214443.4 (CO4)	Identify the Digital Circuits, Input/Outputs to Replace by FPGA.
	214443.5 (CO5)	Use VHDL programming technique with different modelling styles for any digital circuits.
	214444.1 (CO1)	Apply appropriate constructs of C language, coding Standards for application development.
214444 : FUNDAMENTALOF DATA	214444.2 (CO2)	Use dynamic memory allocation concepts and file handling in various application developments.
STRUCTURES	214444.3 (CO3)	Perform basic analysis of algorithms with respect to time and space complexity.
	214444.4 (CO4)	Select appropriate searching and/or sorting Techniques in the application development.
	214444.5 (CO5)	Select and use appropriate data structures for problem solving and programming.

	214444.6 (CO6)	Use algorithmic foundations for solving problems and programming.
	214445.1 (CO1)	Develop algorithms for solving problems by using Modular programming concepts.
214445:PROBLEM SOLVING AND OBJECT ORIENTED	214445.2 (CO2)	Abstract data and entities from the problem domain, build object models and design software solutions using object-oriented principles and strategies
PROGRAMMING	214445.3 (CO3)	Discover, explore and apply tools and best practices in object-oriented programming.
	214445.4 (CO4)	Develop programs that appropriately utilize key object-oriented concepts
	214446.1 (CO1)	Spectacle an awareness and apply knowledge and concepts and methods of digital system design techniques as hands-on experiments with the use of necessary A.C, D.C Loading characteristics.
	214446.2 (CO2)	Use logic function representation for simplification with K-Maps and analyze as well as design Combinational logic circuits using SSI & MSI chips.
214446: DIGITAL LABORATORY	214446.3 (CO3)	Analyze Sequential circuits like Flip-Flops(Truth Table, Excitation table)&design the applications like Asynchronous and Synchronous Counters.
	214446.4 (CO4)	Design Sequential Logic circuits: Sequence generators, MOD counters with registers/Counters using synchronous /asynchronous counters.
	214446.5 (CO5)	Understand the need of skills, techniques and learn state-of- the-art engineering tools through hands- on experimentation on the Xilinx tools for design as well as the basics of VHDL.
	214446.6 (CO6)	Understand and implement the design Steps, main programming technique with different modelling styles for any digital circuits with VHDL Programming.
	214447.1 (CO1)	Apply appropriate constructs of C language, coding standards for application development.
214447 : PROGRAMMING	214447.2 (CO2)	Use dynamic memory allocation concepts and file Handling in various application developments.
LABORATORY	214447.3 (CO3)	Perform basic analysis of algorithms with respect to time and space complexity
	214447.4 (CO4)	Select appropriate searching and/or sorting techniques in the application development
	214447.5 (CO5)	Select and use appropriate data structures for Problem solving and programming
	214447.6 (CO6)	Use algorithmic foundations for solving problems and programming
214448:OBJECT ORIENTED	214448.1 (CO1)	Develop and implement algorithms for solving simple problems using modular programming concept.
PROGRAMMING LABORATORY	214448.2 (CO2)	Abstract data and entities from the problem domain, build object models and design software solutions using object-oriented principles and strategies.

	214448.3 (CO3)	Discover, explore and apply tools and best practices in object-oriented programming
	214448.4 (CO4)	Develop programs that appropriately utilize key object-oriented concepts
	214448.5 (CO5)	Create a database using files
	214449.1 (CO1)	Provides an ability to understand, analyze and interpret the essentiality of grammar and its proper usage.
	214449.2 (CO2)	Build the students vocabulary by means of communication via web, direct communication and indirect communication
214449 : COMMUNICATION SKILLS	214449.3 (CO3)	Improves Students Pronunciation skills and understanding between various phonetic sounds during communication.
	214449.4 (CO4)	Understanding the various rules and means of written communication.
	214449.5 (CO5)	Effective communication with active listening, facing problems while communication and how to over come it.
	210250.1 (CO1)	Better understanding of the dynamic behavior of the urban system by going beyond the physical appearance and by focusing on representations, Properties and impact factors
210250:	210250.2 (CO2)	Exploration of the city as the most complex human-made organism with a metabolism that can be modeled in terms of stocks and flows
AuditCourse1:AC1- IV: Smart Cities	210250.3 (CO3)	Knowledge about data-informed approaches for the development of the future city, based on crowd sourcing and sensing
	210250.4 (CO4)	Knowledge about the latest research results in for the development and management of future cities
	210250.5 (CO5)	Understanding how citizens can benefit from data- informed design to develop smart and responsive cities
		SEMESTER-II
SEIT Course-2015	СО	Course Outcomes
	207003.1 (CO1)	Solve higher order linear differential equation using appropriate techniques for modeling and analyzing electrical circuits
207003 : ENGINEERING MATHEMATICS-III	207003.2 (CO2)	Solve problems related to Fourier transform, Z- Transform and applications to Signal and Image processing.
	207003.3 (CO3)	Apply statistical methods like correlation, regression analysis and probability theory for analysis and prediction of a given data as applied to machine intelligence.
	207003.4 (CO4)	Perform vector differentiation and integration to analyze the vector fields and apply to compute line, surface and volume integrals.
	207003.5 (CO5)	Analyze conformal mappings, transformations and

		Perform contour integration of complex functions required in Image processing, Digital filters and Computer graphics.
	214450.1 (CO1)	Apply mathematics and logic to develop Computer programs for elementary graphic operations
214450:COMPUTER	214450.2 (CO2)	Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics
GRAPHICS	214450.3 (CO3)	Develop the competency to understand the concepts related to Computer Vision and Virtual reality
	214450.4 (CO4)	Apply the logic to develop animation and gaming programs
	214451.1 (CO1)	Learn architectural details of 80386 microprocessor
214451:PROCESSOR ARCHITECTURE AND INTERFACING	214451.2 (CO2)	Understand memory management and multitasking of 80386 microprocessor
	214451.3 (CO3)	Understand architecture and memory organization of 8051 microcontroller
	214451.4 (CO4)	Explain timers and interrupts of 8051 Microcontroller and its interfacing with I/O devices
	214452.1 (CO1)	Analyze algorithms and to determine algorithm correctness and time efficiency class.
214452 : DATA STRUCTURES AND FILES	214452.2 (CO2)	Understand different advanced abstract data type (ADT) and data structures and their implementations.
	214452.3 (CO3)	Understand different algorithm design techniques (brute -force, divide and conquer, greedy, etc.) and Their implementation
	214452.4 (CO4)	Apply and implement learned algorithm design techniques and data structures to solve problems
	214453.1 (CO1)	Understand data/signal transmission over communication media
214453 :	214453.2 (CO2)	Recognize usage of various modulation techniques in communication
FOUNDATIONS OF COMMUNICATION AND COMPUTER NETWORK	214453.3 (CO3)	Analyze various spread spectrum and multiplexing techniques
	214453.4 (CO4)	Use concepts of data communication to solve various related problems
	214453.5 (CO5)	Understand error correction and detection techniques.
	214453.6 (CO6)	Acquaint with transmission media and their standards
214454:PROCESSOR	214454.1 (CO1)	Learn and apply concepts related to assembly language programming
INTERFACING LABORATORY	214454.2 (CO2)	Write and execute assembly language program to perform array addition, code conversion, block transfer, sorting and string operations
	214454.3 (CO3)	Learn and apply interfacing of real world input and Output devices to 8051 microcontroller
214455: DATA	214455.1 (CO1)	Apply and implement algorithm to illustrate use of Linear data structures such as stack, queue.

STRUCTURE AND		
FILESLABORATORY	214455.2 (CO2)	Apply and implement algorithms to create/represent and traverse non-linear data structures such as trees, graphs etc
	214455.3 (CO3)	Apply and implement algorithms to create and manipulate database using different file organizations
	214455.4 (CO4)	Learn and apply the concept of hashing in database Creation and manipulation
214456:COMPUTER GRAPHICS LABORATORY	214456.1 (CO1)	Apply and implement line drawing and circle drawing algorithms to draw specific shape given in the problem
	214456.2 (CO2)	Apply and implement polygon filling algorithm for A given polygon
	214456.3 (CO3)	Apply and implement2-D and 3-D transformation Algorithms for given input shape
	214456.4 (CO4)	Apply and implement polygon clipping algorithm for given input polygon
	214456.5 (CO5)	Apply and implement fractal generation algorithm For a given input
	214456.6 (CO6)	Apply and implement animation concepts for generating simple animation without using any Animation tool

SEMESTER-I

TEIT Course-2015	со	Course Outcomes
	314441.1 (CO1)	To construct finite state machines to solve problems in computing.
	314441.2 (CO2)	To write mathematical expressions for the formal languages
314441:THEORY OF COMPUTATION	314441.3 (CO3)	To apply well defined rules for syntax verification.
	314441.4 (CO4)	To construct and analyze Push Down, Post and Turing Machine for formal languages.
	314441.5 (CO5)	To express the understanding of the decidability and decidability problems
	314441.6 (CO6)	To express the understanding of computational complexity
	314442.1 (CO1)	To define basic functions of DBMS& RDBMS.
	314442.2 (CO2)	To analyze database models &entity relationship models.
314442:DATABASE MANAGEMENT SYSTEMS	314442.3 (CO3)	To design and implement a database schema for a given problem-domain.
	314442.4 (CO4)	To populate and query a database using SQL DML/DDL commands.
	314442.5 (CO5)	Do Programming in PL/SQL including stored procedures, stored functions, cursors and packages.
	314442.6 (CO6)	To appreciate the impact of analytics and big data on the information industry and the external ecosystem for analytical and data services.
	314443.1 (CO1)	To understand the nature of software complexity

314443: SOFTWARE	314443.1 (CO1)	In various application domains, disciplined way of software development and software lifecycle process models.
	314443.2 (CO2)	To introduce principles of agile software development, the SCRUM process and agile practices.
ENGINEERINGAND PROJECT MANAGEMENT	314443.3 (CO3)	To know methods of capturing, specifying, Visualizing and analyzing software requirements
	314443.4 (CO4)	To understand project management through life cycle of the project.
	314443.5 (CO5)	To understand current and future trends and practices in the IT industry.
	314443.6 (CO6)	To learn about project planning, execution, tracking, audit and closure of project.
	314444.1 (CO1)	Fundamental understanding of the role of
	314444.2 (CO2)	Operating Systems To understand the concept of a process and thread.
314444: OPERATING SYSTEM	314444.3 (CO3)	To apply the cons of process/thread scheduling.
	314444.4 (CO4)	To apply the concept of process synchronization, mutual exclusion and the deadlock.
	314444.5 (CO5) 314444.6	To realize the concept of I/O management and File system.
	(CO6)	To understand the various memory management techniques.
	314445.1 (CO1)	To explain importance of HCI study and principles Of user-centered design(UCD)approach.
314445:	314445.2 (CO2)	To develop understanding of human factors in HCI design.
HUMAN- COMPUTER INTERACTION	314445.3 (CO3)	To develop understanding of models, paradigms and context of interactions.
	314445.4 (CO4)	To design effective user-interfaces following a Structured and organized UCD process.
	314445.5 (CO5)	To evaluate usability of a user-interface design.
	314445.6 (CO6)	To apply cognitive models for predicting human-computer-interactions.
	314446.1 (CO1)	To install and configure database systems.
	314446.2 (CO2)	To analyze database models & entity relationship models.
314446:SOFTWARE LABORATORY - I	314446.3 (CO3)	To design and implement a database schema for a given problem-domain
	314446.4 (CO4)	To understand the relational and document type database systems
	314446.5 (CO5)	To populate and query a database using SQL DML/DDL commands.
	314446.6 (CO6)	To populate and query a database using MongoDB commands
314447:SOFTWARE	314447.1 (CO1)	To understand the basics of Linux commands and program the shell of Linux

LABORATORY – II	314447.2 (CO2)	To develop various system programs for the functioning of operating system.
	314447.3 (CO3)	To implement basic building blocks like processes, Threads under the Linux.
	314447.4 (CO4)	To develop various system programs for the functioning of OS concepts in user space like Concurrency control and file handling in Linux.
	314447.5 (CO5)	To design and implement Linux Kernel Source Code.
	314447.6 (CO6)	To develop the system program for the functioning of OS concepts in kernel space like embedding The system call in any Linux kernel.
	314448.1 (CO1)	To identify the needs of users through requirement gathering.
	314448.2 (CO2)	To apply the concepts of Software Engineering process models for project development.
314448:SOFTWARE LABORATORY – III	314448.3 (CO3)	To apply the concepts of HCI for user-friendly Project development.
	314448.4 (CO4)	To deploy website on live web server and access through URL.
	314448.5 (CO5)	To understand, explore and apply various web technologies.
	314448.6 (CO6)	To develop team building for efficient project development
	314449.1 (CO1)	Develop a far deeper understanding of the changing digital landscape.
314449: AC3-IV	314449.2 (CO2)	Identify some of the latest digital marketing trends and skill sets needed for today's marketer
AUDITCOURSE3	314449.3 (CO3)	Successful planning, prediction, and management of digital marketing campaigns.
	314449.4 (CO4)	Implement smart management of different digital assets for marketing needs. Assess digital marketing as a long term career opportunity
	SI	EMESTER-II
TEIT Course-2015	СО	Course Outcome
	314450.1 (CO1)	To know Responsibilities, services offered and protocol used at each layer of network.
	314450.2 (CO2)	To understand different addressing techniques Used in network.
314450: COMPUTER NETWORK TECHNOLOGY	314450.3 (CO3)	To know the difference between different types of network.
	314450.4 (CO4)	To know the different wireless technologies and IEEE standards.
	314450.5 (CO5)	To use and apply the standards and protocols learned, for application development.
	314450.6 (CO6)	To understand and explore recent trends in network domain.
	314451.1 (CO1)	To study and understand different system software like Assembler, Macro-processor and Loaders /Linkers.
314451:SYSTEMS	314451.2 (CO2)	To design and develop useful system software.

PROGRAMMING	314451.3 (CO3)	To study and understand compiler design.
	314451.4 (CO4)	To understand semantic analysis and storage allocation in compilation process.
	314451.5 (CO5)	To understand different code generation techniques.
	314451.6 (CO6)	To study different code optimization methods.
	314452.1 (CO1)	To calculate computational complexity using asymptotic notations for various algorithms.
314452 : DESIGN ANDANALYSIS OF	314452.2 (CO2)	To apply Divide & Conquer as well as Greedy approach to design algorithms.
ALGORITHMS	314452.3 (CO3)	To practice principle of optimality.
	314452.4 (CO4)	To illustrate different problems using Backtracking.
	314452.5 (CO5)	To compare different methods of Branch and Bound strategy.
	314452.6 (CO6)	To explore the concept of P, NP, NP-complete, NP- Hard and parallel algorithms.
	314453.1 (CO1)	To understand the need of Cloud based solutions.
314453: CLOUD COMPUTING	314453.2 (CO2)	To understand Security Mechanisms and issues in various Cloud Applications
	314453.3 (CO3)	To explore effective techniques to program Cloud Systems.
	314453.4 (CO4)	To understand current challenges and trade-offs in Cloud Computing.
	314453.5 (CO5)	To find challenges in cloud computing and delve Into it to effective solutions.
	314453.6 (CO6)	To understand emerging trends in cloud computing.
	314454.1 (CO1)	To understand Big Data primitives.
	314454.2 (CO2)	To learn and apply different mathematical models for Big Data.
314454 : DATA SCIENCE ANDBIG DATA ANALYTICS	314454.3 (CO3)	To demonstrate their Big Data learning skills by developing industry or research applications.
	314454.4 (CO4)	To analyze each learning model come from a different algorithmic approach and it will perform differently under different datasets.
	314454.5 (CO5)	To understand needs challenges and techniques for big data visualization.
	314454.6 (CO6)	To learn different programming platforms for big Data analytics.
	314455.1 (CO1)	To implement small size network and its use of various networking commands.
	314455.2 (CO2)	To understand and use various networking and simulations tools.
314455:SOFTWARE LABORATORY – IV	314455.3 (CO3)	To configure various client/server environments to Use application layer protocols.
	314455.4 (CO4)	To understand the protocol design at various layers.

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	314455.5 (CO5)	To explore use of protocols in various wired and wireless applications.
	314455.6 (CO6)	To develop applications on emerging trends.
314456:SOFTWARE LABORATORY - V	314456.1 (CO1)	To design and implement two pass assembler for hypothetical machine instructions.
ENDORATORY - V	314456.2 (CO2)	To design and implement different phases of compiler(Lexical Analyzer, Parser, Intermediate code generation)
	314456.3 (CO3)	To use the compile generation tools such as "Lex" and "YACC".
	314456.4 (CO4)	To apply algorithmic strategies for solving various problems.
	314456.5 (CO5)	To compare various algorithmic strategies.
	314456.6 (CO6)	To analyze the solution using recurrence relation.
	314457.1 (CO1)	To apply Big data primitives and fundamentals for application development.
	314457.2 (CO2)	To explore different Big data processing techniques With use cases.
314457:SOFTWARE LABORATORY - VI	314457.3 (CO3)	To apply the Analytical concept of Big data using R/Python.
	314457.4 (CO4)	To visualize the Big Data using Tableau.
	314457.5 (CO5)	To design algorithms and techniques for Big data analytics.
	314457.6 (CO6)	To design Big data analytic application for Emerging trends.
	314458.1 (CO1)	To Gather, organize, summarize and interpret technical literature with the purpose of formulating a project proposal.
	314458.2 (CO2)	To write a technical report summarizing state-of- the-art on an identified topic.
314458:PROJECT BASED SEMINAR	314458.3 (CO3)	Present the study using graphics and multimedia presentations.
<i>5</i>	314458.4 (CO4)	Define intended future work based on the technical review.
	314458.5 (CO5)	To explore and enhance the use of various presentation tools and techniques.
	314458.6 (CO6)	To understand scientific approach for literature Survey and paper writing.
	314459.1 (CO1)	Identify the health- and skill-related fitness components for fitness development.
314459 : Audit Course 4 Health & Fitness Management	314459.2 (CO2)	Understand the benefits of physical fitness ,and the underlying principles, physiology, and practices
	314459.3 (CO3)	Apply of fitness management skills and strategies for the development of physical activity habits and Personal fitness by the students.
	314459.4 (CO4)	Aware about healthy diet for physical and mental fitness of an individual.

	314459 (CO5		Understand importance of mental fitness along with physical fitness by practicing yoga, meditation and relaxation	
		BE (Se	emester-I)	
	2015 Pattern			
	414453.01	Be able	e to use basic cryptographic techniques in software and system	
	(CO1)	design.		
414453: INFORMATION AND	414453.02 (CO2)		methods for authentication, access control, intrusion detection evention.	
CYBER SECURITY	414453.03	Able to	apply the scientific method to digital forensics and perform	
	(CO3) 414453.04		c investigations Plop computer forensics awareness.	
	(CO4)			
	414453.05 (CO5)	Ability 1	to use computer forensics tools.	
	414454.01	Model	the learning primitives.	
	(CO1) 414454.02	Build th	e learning model.	
MACHINE LEARNING AND	(CO2)			
APPLICATION (414454) 2015 PATTERN	414454.03 (CO3)		real world problems in the domain of Data Mining and Big Data cs, Information Retrieval, Computer vision, Linguistics and Bio-	
	. , ,	informa	atics.	
	414454.04 (CO4)	Acquire	e fundamental knowledge of classification theory.	
	(Added) 414454.05	Dosign	and avaluate various machine learning algorithms	
	(CO5)	Design	and evaluate various machine learning algorithms.	
	(Added) 414455.01	Unders	tand object oriented methodologies, basics of Unified Modeling	
	(CO1)		ge (UML).	
	414455.02 (CO2)	Unders	tand analysis process, use case modeling, domain/class modeling	
414455: SOFTWARE DESIGN	414455.03	Unders	tand interaction and behavior modeling.	
AND MODELING	(CO3) 414455.04	Unders	tand design process and business, access and view layer class	
	(CO4)	design		
	414455.05 (CO5)	Get sta	rted on study of GRASP principles and GoF design patterns.	
	414455.06		rted on study of architectural design principles and guidelines in	
	(CO6)		ious type of tion development	
	414456.01 (CO1)		the theory and practice of usability evaluation approaches, ds and techniques.	
	414456.02	Compa	re and evaluate strengths and weaknesses of various approaches,	
414456C: ELECTIVE-I USABILITY ENGINEERING	(CO2) 414456.03		ds and techniques for evaluating usability. and implement a usability test plan, based on modelling or	
	(CO3)	require	ments specification	
	414456.04 (CO4)		appropriate approaches, methods and techniques to evaluate bility of a specified interactive system.	
	414457.01	Test th	e software by applying testing techniques to deliver a product	
	(CO1) 414457.02		m bugs. gate the scenario and to select the proper testing technique.	
414457C: ELECTIVE-II SOFTWARE TESTING AND	(CO2)			
QUALITY ASSURANCE	414457.03 (CO3)	-	the test automation concepts and tools and estimation of cost, le based on standard metrics.	
	414457.04 (CO4)	Unders	tand how to detect, classify, prevent and remove defects.	
	414457.05 (CO5)	Choose	appropriate quality assurance models and develop quality.	
	414457.06 (CO6)	Ability inspect	to conduct formal inspections, record and evaluate results of ions.	

414458: COMPUTER LABORATORY VII	414458.01 (CO1)	The students will be able to implement and port controlled and secured access to software systems and networks.
LABORATORT VII	414458.02	The students will be able to build learning software in various domains.
	(CO2)	The stadents will be able to balla learning sortiface in various domains.
	414459.01	Draw, discuss different UML 2.0 diagrams, their concepts, notation,
	(CO1)	advanced notation, forward and reverse engineering aspects.
	414459.02	Identify different software artifacts used to develop analysis and design
414459:COMPUTER	(CO2)	model from requirements.
LABORATORY VIII	414459.03	Develop use case model
	(CO3)	
	414459.04	Develop, implement analysis model and design model
	(CO4)	
	414459.05	Develop, implement Interaction and behaviour Model
	(CO5) 414459.06	Implement an appropriate design pattern to solve a design problem.
	(CO6)	implement an appropriate design pattern to solve a design problem.
	414460.01	To show preparedness to study independently in chosen domain of
	(CO1)	Information Technology and programming languages and apply their
	(552)	acquired knowledge to variety of real time problem scenarios
414460:	414460.02	To function effectively as a team to accomplish a desired goal.
PROJECT PHASE-I	(CO1)	·
	414460.03	An understanding of professional, ethical, legal, security and social issues
	(CO1)	and responsibilities related to Information Technology Project.
	414461.01	Expand your knowledge of emotional patterns in yourself and others.
	(CO1)	
	414461.02	Discover how you can manage your emotions, and positively influence
	(CO2)	yourself and others.
414461A: Audit Course-V	414461.03 (CO3)	Build more effective relationships with people at work and at home.
Emotional Intelligence	414461.04	Positively influence and motivate colleagues, team members, and
	(CO4)	managers.
	414461.05	Increase your leadership effectiveness by creating an atmosphere that
	(CO5)	engages others.
	414461.06	Apply EI behaviors and supports high performance.
	(CO6)	
	414461.01	Understand the concept of green IT and relate it to sustainable
	(CO1)	development.
	414461.02	Apply the green computing practices to save energy.
414461B: Audit Course-V	(CO2) 414461.03	Discuss how the choice of hardware and software can facilitate a more
Green Computing	(CO3)	sustainable Operation.
	414461.04	Use methods and tools to measure energy consumption.
	(CO4)	The state of the s
414461C: Audit Course-V	414461.01	If students whole-heartedly participate in the course, they can expect to
Critical Thinking	(CO1)	be smarter, stronger and more confident thinkers.
Ü	414461.02	They can embark on a life-long journey of "self-directed learning".
	(CO2)	
414461D: Audit Course-V	414461.01	Students will be familiar with concepts related to "data science",
Statistical Learning Model	(CO1)	"analytics", "machine learning", etc. These are important topics, and will
using R	414461 03	enable students to embark on highly rewarding careers.
	414461.02 (CO2)	Students will capable of learning "big data" concepts on their own.
	-	REIT 2015 Dattorn
		BEIT 2015 Pattern
		Semester-II
	414462.01	Understand the principles and desired properties of distributed systems
	(CO1)	based on different application areas.
414462: DISTRIBUTED	414462.02	Understand and apply the basic theoretical concepts and algorithms of
COMPUTING SYSTEM	(CO2) 414462.03	distributed systems in problem solving. Recognize the inherent difficulties that arise due to distributed-ness of
	(CO3)	computing resources.
	414462.04	Identify the challenges in developing distributed applications
	(CO4)	, and an analysis in a state of the state of
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	414463.01 (CO1)	Demonstrate the knowledge of design of Ubicomp and its applications.		
	414463.02 (CO2)	Explain smart devices and services used Ubicomp.		
	414463.03 (CO3)	Describe the significance of actuators and controllers in real time application design.		
414463: UBIQUITOUS COMPUTING	414463.04	Use the concept of HCI to understand the design of automation applications.		
	(CO4) 414463.05	Classify ubicomp privacy and explain the challenges associated with		
	(CO5) 414463.06	ubicomp privacy. Get the knowledge of ubiquitous and service oriented networks along		
	(CO6)	with Ubicomp management.		
	414464A.01 (CO1)	Explain what is internet of things.		
	414464A.02 (CO2)	Explain architecture and design of IoT		
414464A: Elective III INTERNET of THINGS (IoT)	414464A.03 (CO3)	Describe the objects connected in IoT		
	414464A.04 (CO4)	Understand the underlying Technologies.		
	414464A.05 (CO5)	Understand the platforms in IoT.		
	414464A.06 (CO6)	Understand cloud interface to IoT.		
	414464A.01 (CO1)	To understand IoT platforms such as Raspberry-Pi/Beagle board/Arduino		
414464A: ELECTIVE III	414464A.02 (CO2)	To understand operating systems for platforms such as Raspberry Pi/Beagle board/Arduino.		
	414464A.03	To communicate with objects using IoT platforms such as Raspberry-		
INTERNET OF THINGS LABORATORY	(CO3)	Pi/Beagle board/Arduino.		
LABORATORY	414464A.04 (CO4)	To interface cloud environment for IoT application.		
	414464A.05 (CO5)	To implement IoT related protocols such as MQTT / CoAP etc.		
	414464A.06 (CO6)	To implement the web interface for IoT.		
	414464D.01 (CO1)	Understand the basics of Social Media Analytics.		
	414464D.02 (CO2)	Explain the significance of Data mining in Social media.		
414464D: ELECTIVE IV	414464D.03 (CO3)	Demonstrate the algorithms used for text mining.		
SOCIAL MEDIA ANALYTICS	414464D.04 (CO4)	Apply network measures for social media data.		
	414464D.05 (CO5)	Explain Behaviour Analytics techniques used for social media data.		
	414464D.06 (CO6)	Apply social media analytics for Face book and Twitter kind of applications		
	414466.01	Demonstrate knowledge of the core concepts and techniques in		
414466: COMPUTER	(CO1)	distributed systems.		
LABORATORY-IX	414466.02	Learn how to apply principles of state-of-the-Art Distributed systems in		
(CO1) 414466.(practical application. Design, build and test application programs on distributed systems.		
	(CO1) 414467.01	Set up the Android environment and explain the Evolution of cellular		
	(CO1) 414467.02	networks (BT-2). Develop the User Interfaces using pre-built Android UI components (BT -		
A1AA67, COMPLITED	(CO2) 414467.03	6) Create applications for performing CURD SQLite database operations		
414467: COMPUTER LABORATORY-X	(CO3)	using Android(BT-6).		
	414467.04 (CO4)	Create the smart android applications using the data captured through sensors (BT-6).		

	44.4467.05			
	414467.05	Implement the authentication protocols between two mobile devices for providing security(BT-3). Analyze the data collected through android sensors using any machine		
	(CO5)			
	414467.06			
	(CO6)	learning algorithm (BT-4).		
	414468.01	Learn teamwork.		
	(CO1)			
	414468.02	Be well aware about Implementation phase.		
44.44CO. DDOJECT MODIC	(CO2)	' '		
414468: PROJECT WORK	414468.03	Get exposure of various types of testing methods and tools.		
	(CO3)	, , , , , , , , , , , , , , , , , , , ,		
	414468.04	Understand the importance of documentation.		
	(CO4)	onderstand the importance of documentation.		
		Fire and combined the set between the fire and		
	414469.01	Expand your knowledge of Internet of Things.		
	(CO1)			
	414469.02	Discover how you can use IoT in your Engineering applications.		
414469A: Audit Course-VI	(CO2)			
IoT Applications in Engineering Field.	414469.03	Build more effective hands on with IoT elements.		
	(CO3)			
gg	414469.04	Expand the practical knowledge of using IoT components like senso		
	(CO4)	processors.		
	414469.05	Expand the understanding of using different protocols.		
	(CO5)			
	414469.01	Expand your knowledge of Entrepreneurship & Startups.		
	(CO1)			
414469B: Audit Course-VI	414469.02	Discover how you can use Entrepreneur Qualities.		
Entrepreneurship	(CO2)			
Entrepreneursinp	414469.03	Expand the practical knowledge of Finance, Legal-Patents, Intellectual		
	(CO3)	Property, and Business Associations.		
	414469.04	Expand the understanding of Deliverables & Achieving Target.		
	(CO4)			
	414469.01	Understand and discuss what cognitive computing is, and how it differs		
	(CO1)	from traditional approaches.		
	414469.02	Plan and use the primary tools associated with cognitive computing.		
414469C: Audit Course-VI Cognitive computing	(CO2)	The same and primary to the accordance with cognitive companing.		
	414469.03	Plan and execute a project that leverages cognitive computing.		
	(CO3)	Than and excepted a project that leverages cognitive computing.		
	414469.04	Understand and discuss the business implications of cognitive		
	(CO4)	computing.		
414469D: Audit Course-VI	414469.01	The goal of this course is to familiarize the students with the basic		
	(CO1)	_		
AI and Robotics	414469.02	concepts of robotics, artificial intelligence and intelligent machines.		
		It will help students to understand and apply principles, methodology		
	(CO2)	and techniques of intelligent systems to robotics.		