Course Outcomes

Regulation 2017

Course Name	Course Outcomes	
	SEMESTER I	
Course Name	Course Outcomes	
HS8151 Communicative English	 CO1: Read articles of a general kind in magazines and newspapers. CO2: Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English. CO3:Comprehend conversations and short talks delivered in English CO4:Write short Essays of a general kind and personal letters and emails in English CO5: Apply basic grammar principles and be able to synthesize and transform sentences. 	
MA8151 Engineering Mathematics I	 CO1: Apply both the limit definition and rules of differentiation 0020 to different functions. solve maxima and minima of functions CO2:Analyze and solve the partial differentiation for functions of several variables by various methods CO3:Evaluate integrals by using various techniques of integration such as substitution, partial fraction and by parts CO4:Apply integration to compute multiple integrals, Area, Volume in Polar in addition to change of order CO5: Apply various techniques in solving differential equations. 	
PH8151 Engineering Physics	 CO1: Apply knowledge on the basics of properties of matter and its applications. CO 2: Apply knowledge on the concepts of waves and optical devices and their applications in fiber optics. CO 3: Apply knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers. CO4: Discussion advanced physics concepts of quantum theory and its applications in tunneling microscopes. CO5: Apply the basics of crystals, their structures and different crystal growth techniques. 	

CY8151 Engineering Chemistry	 CO1:Design water treatment techniques by analyzing the requirement of boiler feed water and its problems CO2:Analyze the various Industrial applications of Surface Chemistry and Catalysis by understanding the basic concepts CO 3: Develop the applications to single and two component systems by understanding the basic concepts of phase rule and the significance of alloys. CO4:Analyzingthe manufacture of various types of fuels and to interpret its calorific value during combustion CO5: Evaluating the production of electricity from different nonconventional energy sources and to analyze the types of batteries and its efficiency.
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	CO1:Apply The Fundamentals And standards Engineering graphics
GE8152 Engineering Graphics	
	CO2: Design the basic geometrical constructions and multiple views of
	objects.
	CO 3: Apply orthographic projections of lines and plane surfaces.
	CO4: Construct projections and solids and development of surfaces.
	CO5: Visualize and to project isometric and perspective sections of simple
	solids.
	CO 1:Adapt and analyze and develop standard algorithm to solve
	problem CO2:Identify and use the appropriate data types for variable
GE8151	being critically aware of memory
Problem Solving	CO3:Design And Implement control flow and function concept in python
and Python	program for solving problem
Programming	CO4:Apply python data structure list, tuple dictionary for representing
	complex data problem
	CO5:Develop and Implement Python File module and function which reacts
	robust to exceptional input for solving real world problem
GE816	CO1: Develop and debug simple Python Programs.
Problem Solving	CO2: Implement Python programs with conditionals and loops.
and Python	CO3:Develop Python programs stepwise by defining functions and calling
Programming	them
Laboratory	CO4: Apply Python lists, tuples, dictionaries for representing compound data
	CO5: Apply the concepts of Read and write data from/to files Python.
	CO1: Apply physics principles of optics and thermal physics to evaluate
	engineering properties of material.
	CO2: Apply principles of elasticity, optics and thermal properties for engineering applications.
BS8161	CO3:Evaluating quantitative chemical analysis of water quality related
Physics &	Parameters
Chemistry Laboratory	CO4: Knowledge Of Methods To determine the calorific value of fuels,
Laboratory	perform flue gas analysis and combustion analysis. Apply The Science of
	understanding corrosion and its prevention.
	CO5: Demonstrate a knowledge of superconducting and organic
	electronic materials.

SEMESTER II	
Course Name	Course Outcomes
HS8251 Technical English	 CO1: Read technical texts and write area-specific texts effortlessly. CO2: Listen and comprehend lectures and talk about their area of specialization successfully. CO3: Speak appropriately and effectively in varied formal and informal contexts. CO4: Write Reports And Winning Job Applications.

MA8252 Linear Algebra	 CO1: Evaluateand test the consistency and solve system of linear equations. CO2: Analyze and Find the basis and dimension of vector space. CO3: Analyze and Obtain the matrix of linear transformation and its eigenvalues and eigenvectors. CO4: Evaluate and Find orthonormal basis of inner product space and find least square approximation. CO 5: Analyze And find eigenvalues of a matrix using numerical techniques and perform matrix decomposition.
AD8251 Data Structure Design	 CO1:Apply the Abstract Data types, CO2: Analyze linear data structures, such as lists, queues, and stacks, according to the needs of different applications. CO 3: Analyze efficient tree structures to meet requirements such as searching, indexing, and sorting. CO 4: Analyze model problems as graph problems and implement efficient graph algorithms to solve them.
BE 8255 Basic Electrical, Electronics And Measurement Engineering	CO1: Discuss The Essentials Of Electric Circuits And analysis. CO2:Discuss the basic operation of electric machines and transformers CO3: Apply knowledge on renewable sources and common domestic loads. CO 4: Apply measurement and metering for electric circuits.
GE8291 Environmental science and Engineering	CO1:Analyze the concept of an ecosystem and biodiversity to protect the environment CO2:Design the environmental friendly process in engineering to protect environment from various pollutions CO3:Evaluatethetechniqueswhichrequireoptimumuseofnaturalresources in future CO4: Demonstrate The need for sustainable Development and to create awareness of important acts and laws in respect to the environment. CO5: Estimate the population and economic growth, energy requirement and demand.

	CO 1: Design various combinational digital circuits using logic gates.
	CO 2: Design sequential circuits and analyze the design procedures.
AD8252	CO 3: Identify the fundamentals of computer systems and analyze the
Digital Principles and	execution of an instruction.
Computer	CO 4: Analyze different types of control design and identify hazards.
Organization	CO5: Identify the characteristics of various memory systems and I/O
C	Communication.

GE8261	CO1: Identify and Construct carpentry components and pipe connections
	including plumbing works.
Engineering Practice	CO2: Construct structure using welding equipment.
Laboratory	CO3:Illustrate on centrifugal pump, Air conditioner, operations of smithy,
Laboratory	foundry and fittings
	CO4:Apply basic home electrical works and appliances Measure the
	electrical quantities
AD8261	CO1: Apply ADTs as Python classes.
Data Structures Design	CO2: Analyze linear data structures, such as lists, queues, and stacks, according to the needs of different applications.
Laboratory	CO3:Analyze efficient tree structures to meet requirements such as
Laboratory	searching, indexing, and sorting
	CO 4: Design model problems as graph problems and implement efficient
	graph algorithms to solve them.
	SEMESTER III
Course Name	Course Outcomes
Course Name	CO1:Applytheconceptsneededtotestthe logic of a program
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MA8351	CO1:Applytheconceptsneededtotestthe logic of a programCO2: Design structures on many levels.CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer
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MA8351 Discrete	CO1:Applytheconceptsneededtotestthe logic of a programCO2: Design structures on many levels.CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.CO4: Develop The Knowledge Of The Counting principles.
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MA8351 Discrete Mathematics	CO1:Applytheconceptsneededtotestthe logic of a programCO2: Design structures on many levels.CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.CO4: Develop The Knowledge Of The Counting principles.CO5: Analyze the concepts and properties of algebraic structures such as groups, rings and fields.CO1:Apply and Outline the basic services and functionalities of operating systems
MA8351 Discrete Mathematics AD8301	 CO1:Applytheconceptsneededtotestthe logic of a program CO2: Design structures on many levels. CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science. CO4: Develop The Knowledge Of The Counting principles. CO5: Analyze the concepts and properties of algebraic structures such as groups, rings and fields. CO1:Apply and Outline the basic services and functionalities of operating systems CO 2: Analyze various scheduling algorithms, and understand the
MA8351 Discrete Mathematics AD8301 Introduction to	CO1:Applytheconceptsneededtotestthe logic of a programCO2: Design structures on many levels.CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.CO4: Develop The Knowledge Of The Counting principles.CO5: Analyze the concepts and properties of algebraic structures such as groups, rings and fields.CO1:Apply and Outline the basic services and functionalities of operating systemsCO 2: Analyze various scheduling algorithms, and understand the different deadlock, prevention and avoidance schemes
MA8351 Discrete Mathematics AD8301	CO1:Applytheconceptsneededtotestthe logic of a programCO2: Design structures on many levels.CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.CO4: Develop The Knowledge Of The Counting principles.CO5: Analyze the concepts and properties of algebraic structures such as groups, rings and fields.CO1:Apply and Outline the basic services and functionalities of operating systemsCO 2: Analyze various scheduling algorithms, and understand the different deadlock, prevention and avoidance schemes CO3: Illustrate the different memory management schemes.
MA8351 Discrete Mathematics AD8301 Introduction to	CO1:Applytheconceptsneededtotestthe logic of a programCO2: Design structures on many levels.CO3: Analyze the class of functions which transform a finite set into another finite set which relates to input and output functions in computer science.CO4: Develop The Knowledge Of The Counting principles.CO5: Analyze the concepts and properties of algebraic structures such as groups, rings and fields.CO1:Apply and Outline the basic services and functionalities of operating systemsCO 2: Analyze various scheduling algorithms, and understand the different deadlock, prevention and avoidance schemes

AD8302 Fundamentals of Data Science	 CO1: Apply the skills of data inspecting and cleansing. CO2: Develop and determine the relationship between data dependencies using statistics CO 3: Apply and handle data using primary tools used for data science in Python CO4:Develop and represent the useful information using mathematical skills CO5: Apply the knowledge for data describing and visualization using tools.
CS8392 Object Oriented Programming	CO1:DevelopJavaprogramsusingOOPprinciples CO2:DevelopJavaprogramswiththeconceptsinheritanceandinterfaces CO 3:Design Java applications using exceptions and I/O streams CO4:DevelopJavaapplicationswiththreadsandgenericsclasses CO 5:Develop interactive Java programs using swings

AD8351	CO1: Analyze and design algorithms for various computing problems. CO 2: Analyze the time and space complexity of algorithms
Design and Analysis	CO3: Critically analyze the different algorithm design techniques for a given
of Algorithm	problem
	CO4:Design and Modify existing algorithms to improve
	efficiency
	CO 5: Apply techniques in solving real time problems
AD8311	CO 1: Develop relevant programming abilities.
Data Science	CO2: Demonstrate knowledge of statistical data analysis
Laboratory	techniques.
	CO 3:Apply and exhibit proficiency to build and assess data-based models
	CO 4: Apply data science concepts and methods to solve problems in real-
	world contexts and will communicate these solutions.
CS8383	CO1: Develop and implement Java programs for simple applications that
Object Oriented	make use of classes packages and interfaces.
Programming Laboratory	CO2: Develop and implement Java Program With Array list, exception handling and multithreading.
Laboratory	CO3: Design applications using file Processing, generic programming and
	event handling.
	CO4:Applydynamic memory management techniques using
	pointers, constructors, destructors, etc
	CO 5: Develop program/ Application using the concept of function
	overloading, operator overloading, virtual functions and polymorphism.
HS8381	CO1: Apply Listen and respond appropriately.
Interpersonal	CO2: Develop and Participate in group discussions.
Skills/Listening &	CO3: Apply and make effective presentations.
Speaking	CO4: Apply and participate confidently and appropriately in conversations both formal and informal.

SEMESTER IV	
Course Name	Course Outcomes
MA8391 Probability and Statistics	 CO1: Apply The fundamental knowledge the concepts of probability and standard distributions which can scribe real life phenomenon. CO2: Apply the basic concepts of one and two dimensional random variables in engineering applications CO3: Apply the concept of random processes in engineering disciplines. CO 4: Analyze various queuing models CO5: Identifyandcharacterizephenomenonwhichevolvewithrespectto time in probabilistic manner
AD8401 Database Design & Management	 CO1: Apply and Understand the database development life cycle and apply conceptual modeling. CO2: Apply SQL and programming in SQL to create, manipulate and query the database CO 3: Apply conceptual-to-relational mapping and normalization to design relational databases. CO4: Determine the serializability of any non-serial schedule using concurrency techniques. CO5: Apply the data model and querying in Object-relational and No-SQL Database efficiency.

AD8402 Artificial Intelligence -I	 CO1: Apply autonomous agents that make effective decisions in fully informed, partially observable, and adversarial settings CO 2: Apply and Choose appropriate algorithms for solving given AI problems CO3: Design and implement logical reasoning agents CO 4: Design and implement agents that can reason under uncertainty.
AD8403 Data Analytics	CO1: Apply and understand the concept of sampling. CO2: Apply the knowledge to derive hypotheses for given data CO 3: Demonstrate the skills to perform various tests in the given data. CO4: Ability to derive inference using Predictive Analytics.
	CO5: Apply to perform statistical analytics on a data set
AD8002 Healthcare Analytics	 CO1: Apply machine learning and deep learning algorithms for health data analysis CO 2: Apply the data management techniques for healthcare data. CO3: Evaluate the need of healthcare data analysis in e-healthcare, telemedicine and other critical care applications. CO4: Design health data analytics for real time applications. CO5: Design emergency care system using health data analysis.

AD8411	CO1: Apply the database development life cycle.
Database Design and	CO2: Design relational database using conceptual-to-relational mapping,
Management	Normalization.
Laboratory	CO 3: Apply SQL for creation, manipulation and retrieval of data.
	CO4: Develop a database application for real-time problems.
	CO5: Design and query object-relational databases.
AD8412	CO1: Apply various packages in Python.
Data Analytics	CO2: Demonstrate the understanding of data distribution with various
Laboratory	samples.
	CO 3: Ability to Implement T-Test, Anova and Z-Test on sample data sets.
	CO4: Apply Mathematical models in real world problems.
	CO5: Design and Conduct time series analysis and draw conclusions.
AD8413	CO1: Apply and implement simple PEAS descriptions for given AI tasks.
Artificial	CO2: Develop programs to implement simulated annealing and genetic
Intelligence-I	algorithms.
Laboratory	CO 3: Demonstrate the ability to solve problems using searching and
	backtracking.
	CO4: Ability to Implement simple reasoning systems using either backward or
	forward inference mechanisms.
	CO5: Apply and implement a suitable technics for a given AI task
HS8461	CO 1: Write different types of essays.
Advanced Reading	CO 2: Write winning job applications
and writing	CO3: Read and evaluate texts
C	critically.
	CO4: Display critical thinking in various professional contexts.
	CO 5: Analyze a variety of communication acts.
	SEMESTER-V
Course	Course Outcomes
Name	
AD8501	CO 1: Apply and formulate and solve linear programming problems.
Optimization	CO2: Evaluate Integer Programming Problems, Transportation
Techniques	and Assignment Problems.
1	CO3: Apply and Obtain solution to network problems using
	CPM and PERT techniques.
	CO 4: Apply to optimize the function subject to the constraints
	CO5: Apply to solve problems under Markovian queuing models
CW8691	CO1:Apply and comprehend the basic layers
	and its functions in computer networks
Computer Networks	CO2:Evaluate the performance of a network
	CO3: Apply and understand the basics of how data flows from
	one node to another.
	CO 4: Analyze and Design routing algorithm.
	CO5: Identify And Use Various Application Layer Protocol.

	CO1: Apply the basics of Data Exploration.
AD8502	CO 2: Apply and Use Univariate and Multivariate Analysis for Data
1	Exploration.
and Visualization	CO3: Apply and explain various Data Visualization methods.
	CO4: Apply the concept of Data Visualization on various
	datasets.
	CO 5: Apply the data visualization techniques using R language.
	CO1: Apply real world business problems and models with analytical
AD8551	solutions.
Business Analytics	CO 2: Identify the business processes for extracting Business Intelligence
Dusiness Analyties	CO3: Apply predictive analytics for business fore-casting.
	CO4: Apply analytics for supply chain and logistics
	management.
	CO 5: Apply and use analytics for marketing and sales.
AD8552	CO1:Apply the basics of ML
	CO 2: Apply and explain various Z Machine Learning methods
Machine Learning	CO3:Demonstrate various ML techniques using standard packages
	CO4:Explore knowledge on Machine learning and Data
	Analytics
	CO 5: Apply ML to various real time examples.
OCE552	CO 5. Apply WE to various real time examples.
Geographic	CO1: Apply basic idea about the fundamentals of GIS
Information System	CO 2:Implement and understand the types of data models
	CO3:Implement and get knowledge about data input and topology
	CO4: Apply and gain knowledge on data quality and standards
	CO5: Analyze data management functions and data output.
	CO1: Apply and understand the implementation procedures for the machine
	learning algorithms
AD8511	CO 2: Design Java/Python programs for various Learning
Machine	algorithms
Learning	CO3: Apply appropriate Machine Learning algorithms to data
Laboratory	sets
	CO 4: Identify and apply Machine Learning algorithms to solve real world
100510	problems.
AD8512	CO1: Install analytical tools and configure a distributed file system.
Mini Project on Data	CO2: Developing and executing analytical procedures in various distributed
Science Pipeline	frameworks and databases.
	CO3: Develop, implement and deploy simple applications on very large
	datasets.
	CO 4: Implement simple to complex data modeling in NoSQL
	databases.
	CO5: Implement real world applications by using suitable analytical framework
	and tools.

	SEMESTERVI
Course Name	Course Outcomes
AD8601	CO1: Explain the probabilistic reasoning using Bayesian inference.
Artificial	CO2: Apply appropriate Probabilistic reasoning techniques for solving
Intelligence-II	uncertainty problems
	CO 3: Explain use of game theory for decision making.
	CO4: Explain and apply probabilistic models for various use cases.
	CO5: Apply AI techniques for robotics.
	CO1: Apply the fundamentals of security and the significance of number theory
	in computer security.
AD8602 Data and	CO2:DesignandLearn the public key cryptographic standards and authentication scheme
Information	CO 3:Apply the security frameworks for real time applications
Security	CO4: Apply and understand the security threats and attacks in IoT, Cloud.
20001105	CO5: Develop appropriate security algorithms understanding the possible
	threats.
	CO1: Design simple web pages using markup languages like HTML and
	XHTML.
IT8501	CO 2: Create dynamic web pages using DHTML and java script that is easy to
Web Technology	navigate and use.
	CO3: Program server side web pages that have to process request from client
	side web pages.
	CO4: Design and represent web data using XML and develop web pages using JSP.
	CO5:Apply and understand various web services and how these web services
	interact.
CS8791	CO1: Articulate the main concepts, key technologies, strengths and
Cloud Computing	limitations of cloud computing.
	CO 2: Apply and learn the key and enabling technologies that help in the
	development of the cloud.
	CO3: Develop the ability to understand and use the architecture of compute and
	storage cloud, service and delivery models.
	CO4: Explain the core issues of cloud computing such as resource management and security.
	CO5: Evaluate and choose the appropriate technologies, algorithms and
	approaches for implementation and use of cloud.
IT8511	CO1:Design simple web pages using markup languages like HTML and
Web	XHTML.
Technology	CO 2: Create dynamic web pages using DHTML and java script that is easy to
Laboratory	navigate and use.
	CO3: Program server side web pages that have to process requests from client
	side web pages.
	CO4: Apply web data using XML and develop web pages using JSP.
	CO 5: Apply various web services and how these web services interact.

AD8611 Artificial Intelligence-II Laboratory	 CO1:Analyzeand solve basic AI based problems CO2: Implement the concept of Bayesian Network. CO3: Apply AI techniques to real-world problems to develop intelligent systems. CO4: Implement HMM for real-world application. CO5:Apply Reinforcement Learning to implement various intelligent systems.
HS8581	CO1:Make effective presentations
Professional	CO2: Participate confidently in Group Discussions.
Communication	CO3: Attend job interviews and be successful in them.
	CO4: Develop adequate Soft Skills required for the workplace.
AD8612 Social Relevant Project	CO1: Apply tools like SAS, Python, R, Scala CO2: Apply Big Data: Hadoop Ecosystem (Hive, Pig, Sqoop, Flume), Big Data Lakes,No SQL, Apache Spark, Spark MLLib , HPCC, Strom CO3:ApplyBusiness Intelligence : SQL, Microsoft Power BI, SAP BI, Tableau, Oracle Fusion CO 4: Apply Machine Learning and Deep Learning : TensorFlow, Keras, Artificial Neural Networks, Deep NeuralNets, Convolution Neural Networks, Auto encoders

SEMESTER VII	
Course Name	Course Outcomes
AD8701 Deep Learning	 CO 1: Explain the basics in deep neural networks. CO2: Apply Convolution Neural Network for image processing. CO3: Explain the basics of Artificial Intelligence using deep learning. CO4: Apply deep learning algorithms for data science. CO5: Apply deep learning algorithms for variety applications.
AD8702 Text Analytics	 CO1:Design text extraction techniques CO2: Devise clustering techniques for text mining. CO3: Design classification techniques for text mining. CO 4: Apply visualization techniques and perform anomaly & trend detection. CO5: Perform Event operations in Text streams.
AD8703 Basics of Computer Vision	 CO1: Explain low level processing of image and transformation techniques applied to images. CO2: Explain the feature extraction, segmentation and object recognition methods. CO3: Apply Histogram transform for detection of geometric shapes like line, ellipse and objects. CO4: Illustrate 3D vision process and motion estimation techniques. CO5: Apply vision techniques to real time applications.

AD8704 Big Data Management	 CO1: Describe big data and use cases from selected business domains. CO2: Explain No SQL big data management. CO3: Install, configure, and run Hadoop and HDFS. CO4: Perform map-reduce analytics using Hadoop. CO5: Apply Hadoop related tools such as HBase, Cassandra, Pig, and Hive for big data analytics.
AD8705 AI & Robotics	 CO1: Explain the types of Robots CO2: Narrate the kinematics of Robots. CO 3: Implement image processing algorithms. CO4: Devise Localization algorithms. CO5: Devise Path planning methods for navigation.
AD8711- eep Learning Laboratory	 CO1: Apply deep neural networks for simple problems. CO 2: Apply Convolution Neural Network for image processing. CO3: Apply Recurrent Neural Network and its variants for text analysis. CO4: Apply generative models for data augmentation. CO5: Develop a real world application using suitable deep neural networks.

SEMESTER VIII	
Course Name	Course Outcomes
AD8009	CO1:Apply to know about the operations and fundamentals of the supply chain.
Operations Supply Management	CO2: Analyze to understand the quality management tools and sampling process.
	CO3: Develop to understand the design factors and various design options
	of distribution networks in industries and the role of transportation and warehousing.
	CO4: Apply to understand the various sourcing decisions in the supply
	chain. CO5: Develop understanding the supply chain management in IT industries.
AD8016	CO1: Apply the information extraction techniques for real time applications.
Information	CO 2: Design systems based on the concepts of information retrieval.
Extraction and	CO3: Apply data specific information extraction and retrieval.
Retrieval	CO 4: Create web applications by understanding the information
	extraction and retrieval techniques.
	CO5: Apply the concepts of information classification and clustering in wide
	range of other applications.

AD8811 Project Work	CO 1: Apply Knowledge to make links across different domain and to generate, develop and evaluate ideas and information so as to apply these skills to the project taskCO2: Apply the skills to communicate effectively and to present ideas clearly and coherently to specific audiences in both the written and oral forms.
	 CO3: Apply collaborative skills through working in a team to achieve common goals. CO 4: Design solution using appropriate methodology to take up challenging real world problems. CO5:Demonstrate And Build the project successfully by hardware
	requirements, coding,emulator and testing.