




DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE

TE AI&DS (2019 PATTERN)

Course Name	Database Management Systems	Course code	310241
CO's No:	CO Statement		
CO. 310241.1	Analyze and design Database Management System using ER model		
CO. 310241.2	Implement database queries using database languages		
CO. 310241.3	Normalize the database design using normal forms		
CO. 310241.4	Apply Transaction Management concepts in real-time situations		
CO. 310241.5	Use NoSQL databases for processing unstructured data		
CO. 310241.6	Differentiate between Complex Data Types and analyze the use of appropriate data types		

  
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TE AI&DS (2019 PATTERN)

Course Name	Computer Networks	Course code	317521
CO's No:	CO Statement		
CO.317521.1	Summarize fundamental concepts of Computer Networks, architectures, protocols and technologies.		
CO.317521.2	Analyze the working of physical layer protocols.		
CO.317521.3	Analyze the working of different routing protocols and mechanisms		
CO.317521.4	Implement client-server applications using sockets		
CO.317521.5	Illustrate role of application layer with its protocols, client-server architectures		
CO.317521.6	Summarize concepts of MAC and Ethernet.		

  
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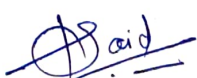
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SCIENCE

TE AI&DS (2019 PATTERN)

Course Name	Web Technology	Course code	310252
CO's No:	CO Statement		
CO.310252.1	Implement and analyze behavior of web pages using HTML and CSS		
CO.310252.2	Apply the client side technologies for web development		
CO.310252.3	Analyze the concepts of Servlet and JSP		
CO.310252.4	Analyze the Web services and frameworks		
CO.310252.5	Apply the server side technologies for web development		
CO.310252.6	Create the effective web applications for business functionalities using latest web development platforms		

  
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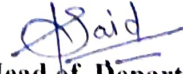
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SCIENCE

TE AI&DS (2019 PATTERN)

Course Name	Artificial Intelligence	Course code	310253
CO's No:	CO Statement		
CO.310253.1	Identify and apply suitable Intelligent agents for various AI applications.		
CO.310253.2	Build smart system using different informed search / uninformed search or heuristic approaches		
CO.310253.3	Identify knowledge associated and represent it by ontological engineering to plan		
CO.310253.4	Apply the suitable algorithms to solve AI problems		
CO.310253.5	Implement ideas underlying modern logical inference systems		
CO.310253.6	Represent complex problems with expressive yet carefully constrained language of representation		

  
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TE AI&DS (2019 PATTERN)

<b>Course Name</b>	<b>Elective-I Laboratory Embedded Systems and Security</b>	<b>Course code</b>	<b>317525</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO.317525.1	Design Embedded firmware using Embedded C.		
CO.317525.2	Apply the fundamentals of RTOS to design Embedded Systems.		
CO.317525.3	Build the Embedded Linux based Embedded System.		

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TE AI&DS (2019 PATTERN)

Course Name	Elective-I Embedded Systems and Security	Course code	317522(A)
CO's No:	CO Statement		
CO.317522(A).1	Differentiate between Embedded System & general computing systems		
CO.317522(A).2	Describe ARM MCU Architecture and its features		
CO.317522(A).3	Design Embedded firmware using Embedded C		
CO.317522(A).4	Apply the fundamentals of RTOS to design Embedded Systems		
CO.317522(A).5	Build the Embedded Linux based Embedded System		
CO.317522(A).6	Summarize Embedded system security threats and solutions		

  
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**TE AI&DS (2019 PATTERN)**

<b>Course Name</b>	<b>Elective - I Laboratory Design Thinking</b>	<b>Course code</b>	<b>317525</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO.317525.1	Frame and Design Challenge by performing STEEP Analysis, Conduct Interviews, design and ask 5x Why and 5W+H questions.		
CO.317525.2	Demonstrate the activities to empathize with the users by creation of Empathy Map, Persona Development, Customer Journey Map.		
CO.317525.3	Define and ideate process of design thinking and perform brainstorming, selection of ideas, create a storyboard and design paper prototyping or digital prototyping for chosen design challenge.		

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TE AI&DS (2019 PATTERN)

Course Name	Elective-I Design Thinking	Course code	314445 (C)
CO's No:	CO Statement		
CO.314445(C).1	Identify need and features of design thinking.		
CO.314445(C).2	Identify the opportunities and challenges for design thinking innovation.		
CO.314445(C).3	Learn the process of design thinking using various tools.		
CO.314445(C).4	Summarize and learn the various prototyping techniques.		
CO.314445(C).5	Enlist the activities carried out in Test and reflect phase of design thinking.		
CO.314445(C).6	Interpret the design thinking disruptive innovations through case studies.		

  
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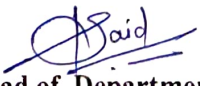
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TE AI&DS (2019 PATTERN)

Course Name	Elective – I Pattern Recognition	Course code	317522(B)
CO's No:	CO Statement		
CO.317522(B).1	Distinguish variety of pattern recognition, classification and combination techniques.		
CO.317522(B).2	Apply statistical pattern recognition approaches in variety of problems.		
CO.317522(B).3	Elaborate different approaches of syntactic pattern recognition.		
CO.317522(B).4	Differentiate graphical approach and grammatical inferences in syntactic pattern recognition		
CO.317522(B).5	Illustrate the artificial neural network-based pattern recognition		
CO.317522(B).6	Apply unsupervised learning in pattern recognition.		

  
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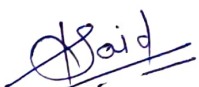
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TE AI&DS (2019 PATTERN)

Course Name	Elective- I Laboratory Human Computer Interface	Course code	317525
CO's No:	CO Statement		
CO.317525.1	To design effective Human-Computer-Interfaces for all kinds of users		
CO.317525.2	To apply and analyze the user-interface with respect to golden rules of interface		
CO.317525.3	To implement the interactive designs for feasible data search and retrieval		

  
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TE AI&DS (2019 PATTERN)

Course Name	Elective-I Laboratory Pattern Recognition	Course code	317525
CO's No:	CO Statement		
CO.317525.1	Apply statistical pattern recognition approaches.		
CO.317525.2	Implement different approaches of syntactic pattern recognition.		
CO.317525.3	Develop artificial neural network-based pattern recognition system		

  
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TE AI&DS (2019 PATTERN)

<b>Course Name</b>	<b>Software Laboratory-I</b>	<b>Course code</b>	<b>317523</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO.317523.1	Implement SQL queries for given requirements, using different SQL concepts.		
CO.317523.2	Design and develop application using database considering.		
CO.317523.3	Design and develop application using database considering specific requirements		
CO.317523.4	Design a system using different informed search / uninformed search or heuristic approaches.		
CO.317523.5	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.		
CO.317523.6	Design and develop an interactive AI application.		

  
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TE AI&DS (2019 PATTERN)

Course Name	Environmental Studies	Course code	317527
CO's No:	CO Statement		
CO.317527.1	Aware the importance of environment.		
CO.317527.2	Understand the water pollution.		
CO.317527.3	Know the Air and noise pollution.		
CO.317527.4	Understand the E-waste and green computing.		

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TE AI&DS (2019 PATTERN)

<b>Course Name</b>	<b>Audit Course 5 Emotional Intelligence</b>	<b>Course code</b>	<b>317528(A)</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO.317528(A).1	Expand their knowledge of emotional patterns in themselves and others		
CO.317528(A).2	Discover how to manage their emotions, and positively influence themselves and others		
CO.317528(A).3	Build more effective relationships with people at work and home		
CO.317528(A).4	Positively influence and motivate colleagues, team members and managers		
CO.317528(A).5	Increase their leadership effectiveness by creating an atmosphere that engages others.		

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TE AI&DS (2019 PATTERN)

Course Name	Audit Course 5 Industrial Safety and Consciousness	Course code	317528(B)
CO's No:	CO Statement		
CO.317528(B).1	Formulate the plan for safety performance		
CO.317528(B).2	Formulate the action plan for accidents and hazards.		
CO.317528(B).3	Follow the safety and security norms in the industry.		
CO.317528(B).4	Consider critically the environmental issues of industrialization		

*Padlevi*  
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TE AI&DS (2019 PATTERN)

Course Name	Audit Course 5 3D Printing	Course code	317528(C)
CO's No:	CO Statement		
CO.317528(C).1	Apply models for 3D printing.		
CO.317528(C).2	Plan the resources for 3D printing		
CO.317528(C).3	Apply principles in 3D printing in real world.		

*Pallavi*

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TE AI&DS (2019 PATTERN)

Course Name	Audit- Course 5 MOOC- Learn New Skills	Course code	317528(E)
CO's No:	CO Statement		
CO.317528(E).1	On completion of the course, learner will acquire additional knowledge and skill.		

*Fallovani*

Course Teacher



*Said*

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE

TE AI&DS (2019 PATTERN)

Course Name	Seminar and Technical Communication	Course code	317526
CO's No:	CO Statement		
CO.317526.1	Analysis specialized topic of interest from core area.		
CO.317526.2	Enhance Technical writing skills.		
CO.317526.3	Targeting specific problem and identify working solution to resolve it.		
CO.317526.4	Developing professional communication skill		

  
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TE AI&DS (2019 PATTERN)

Course Name	CN Laboratory	Course code	317524
CO's No:	CO Statement		
CO. 317524.1	Analyze the requirements of network types, topology and transmission media.		
CO. 317524.2	Demonstrate error control, flow control techniques and protocols and analyze them.		
CO. 317524.3	Demonstrate the subnet formation with IP allocation mechanism and apply various routing algorithms.		
CO. 317524.4	Develop Client-Server architectures and prototypes.		
CO.317524.5	Implement web applications and services using application layer protocols.		

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TE AI&DS (2019 PATTERN)

Course Name	Human Computer Interface	Course code	310245(B)
CO's No:	CO Statement		
CO.310245(B).1	Design effective Human-Computer-Interfaces for all kinds of users		
CO.310245(B).2	Apply and analyze the user-interface with respect to golden rules of interface		
CO.310245(B).3	Analyze and evaluate the effectiveness of a user-interface design		
CO.310245(B).4	Implement the interactive designs for feasible data search and retrieval		
CO.310245(B).5	Analyze the scope of HCI in various paradigms like ubiquitous computing, virtual reality, multi-media, World wide web related environments		
CO.310245(B).6	Analyze and identify user models, user support, and stakeholder requirements of HCI systems		

  
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TE AI& DS (2019 PATTERN)

Course Name	Data Science	Course Code	317529
CO's No:	CO Statement		
CO:317529.1	Analyze needs and challenges for Data Science		
CO:317529.2	Apply statistics for Data Analytics		
CO:317529.3	Apply the Lifecycle of Data Analytics to real World problem		
CO:317529.4	Apply statistics for Data Analytics		
CO:317529.5	Implement data visualization using visualization tools in Python programming		
CO:317529.6	Design and implement Big Databases using the Hadoop ecosystem		

  
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SCIENCE  
TE AI& DS (2019 PATTERN)

Course Name	Artificial Neural Network	Course Code	317531
CO's No:	CO Statement		
CO:317531.1	Understand the basic features of neural systems and be able to build the neural model.		
CO:317531.2	Perform the training of neural networks using various learning rules.		
CO:317531.3	Grasping the use of Associative learning Neural Network		
CO:317531.4	Describe the concept of Competitive Neural Networks		
CO:317531.5	Implement the concept of Convolutional Neural Networks and its models		
CO:317531.6	Use a new tool /tools to solve a wide variety of real-world problems		

  
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TE AI& DS (2019 PATTERN)

<b>Course Name</b>	<b>Cyber Security</b>	<b>Course Code</b>	<b>317530</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO:317530.1	Gauge the security protections and limitations provided by today's technology.		
CO:317530.2	Identify cyber security threats.		
CO:317530.3	Analyze threats in order to protect or defend it in cyberspace from cyber-attacks.		
CO:317530.4	Build appropriate security solutions against cyber-attacks		

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
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TE AI& DS (2019 PATTERN)

Course Name	Elective II Software Modeling and Architecture	Course Code	310254(D)
CO's No:	CO Statement		
CO: 310254(D).1	Analyze the problem statement (SRS) and choose proper design technique for designing web-based/ desktop application		
CO: 310254(D).2	Design and analyze an application using UML modeling as fundamental tool		
CO: 310254(D).3	Evaluate software architectures		
CO: 310254(D).4	Use appropriate architectural styles and software design patterns		
CO: 310254(D).5	Apply appropriate modern tool for designing and modeling		

  
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TE AI& DS (2019 PATTERN)

<b>Course Name</b>	<b>Software Laboratory III</b>	<b>Course Code</b>	<b>317534</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO: 317534.1	Apply principles of Data Science for the analysis of real time problems		
CO: 317534.2	Implement data representation using statistical methods		
CO: 317534.3	Implement and evaluate data analytics algorithms		
CO: 317534.4	Perform text preprocessing		
CO: 317534.5	Implement data visualization techniques		
CO 317534.6	Use cutting edge tools and technologies to analyze Data		

  
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TE AI& DS (2019 PATTERN)

Course Name	Software Laboratory II	Course Code	317533
CO's No:	CO Statement		
CO: 317533.1	Model artificial Neural Network, and to analyze ANN learning, and its applications		
CO: 317533.2	Perform Patter Recognition, Linear classification		
CO: 317533.3	Develop different single layer/multiple layer Perception learning algorithms		
CO: 317533.4	Design and develop applications using neural networks		

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TE AI& DS (2019 PATTERN)

<b>Course Name</b>	<b>Elective II Cloud Computing</b>	<b>Course Code</b>	<b>310254(C)</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO:310254(c).1	Understand the different Cloud Computing environment		
CO:310254(c).2	Use appropriate data storage technique on Cloud, based on Cloud application		
CO:310254(c).3	Analyze virtualization technology and install virtualization software		
CO:310254(c).4	Develop and deploy applications on Cloud		
CO:310254(c).5	Apply security in cloud applications		
CO:310254(c).6	Use advance techniques in Cloud Computing		

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TE AI& DS (2019 PATTERN)

<b>Course Name</b>	<b>Elective II Natural Language Processing</b>	<b>Course Code</b>	<b>317532(B)</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO:317532(B).1	Understand the fundamental concepts in field of NLP		
CO:317532(B)..2	Understand morphological aspect and processing in NLP		
CO:317532(B)..3	Distinguish among various techniques of syntax parsing		
CO:317532(B)..4	Understand use of various parsing techniques to parse sentence and extract meaning from its structure		
CO:317532(B)..5	Apply different Machine translation techniques for translating a source to target language(s)		
CO:317532(B)..6	Design and implement different application using NLP		

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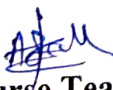


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TE AI& DS (2019 PATTERN)

<b>Course Name</b>	<b>Elective II Robotics and Automation</b>	<b>Course Code</b>	<b>317532(A)</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO:317532(A).1	Demonstrate the Sensors, actuators, End effectors		
CO:317532(A)..2	Analyse Robot Kinematics and Dynamics with simulation		
CO:317532(A)..3	Summarize control laws for simple robot		
CO:317532(A)..4	Develop robot program for robot application		

  
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TE AI& DS (2019 PATTERN)

Course Name	Internship	Course Code	317535
<b>CO's No:</b>	<b>CO Statement</b>		
CO: 317535.1	To demonstrate professional competence through industry internship.		
CO: 317535.2	To apply knowledge gained through academics to a professional environment during internship		
CO: 317535.3	To apply knowledge gained through academics to a professional environment during internship given real time problem.		
CO: 317535.4	To demonstrate abilities of a responsible professional and use ethical practices in day today life.		
CO: 317535.5	To create professional and social network and develop relationships with industry people and get exposure to future employers.		
CO: 317535.6	To explore various career opportunities in different domains and decide career goals.		

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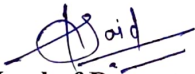


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SCIENCE  
TE AI& DS (2019 PATTERN)

Course Name	Mini Project	Course Code	317536
CO's No:	CO Statement		
CO: 317536.1	Identify basic security attacks and services		
CO: 317536.2	Analyze the vulnerabilities and design a security solution.		
CO: 317536.3	Implement symmetric and asymmetric key algorithms		
CO: 317536.4	Demonstrate network security applications, Firewall, IDs		

  
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TE AI& DS (2019 PATTERN)

Course Name	Audit Course 6: Sustainable Energy Systems	Course Code	317537(B)
CO's No:	CO Statement		
CO: 317537(B).1	Understand the importance of Sustainable Energy Systems		
CO: 317537(B).2	Develop the awareness towards Sustainable Energy Systems protection		
CO: 317537(B).3	Know different types of natural resource pollution		
CO: 317537(B).4	Develop the awareness towards the exploitation and utilization of conventional and non- conventional energy resources		

*Pallavi*  
Course Teacher



*Said*  
Head Of Department  
Head Of Department  
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE  
TE AI& DS (2019 PATTERN)

Course Name	Audit Course 6: Sustainable Energy Systems	Course Code	317537(B)
CO's No:	CO Statement		
CO: 317537(B).1	Understand the importance of Sustainable Energy Systems		
CO: 317537(B).2	Develop the awareness towards Sustainable Energy Systems protection		
CO: 317537(B).3	Know different types of natural resource pollution		
CO: 317537(B).4	Develop the awareness towards the exploitation and utilization of conventional and non- conventional energy resources		

*Pallavi*  
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE  
TE AI& DS (2019 PATTERN)

Course Name	Audit Course 6: Digital and Social Marketing	Course Code	317537(A)
CO's No:	CO Statement		
CO: 317537(A).1	Understand the importance and fundamentals of digital marketing		
CO: 317537(A).2	Understand how the social media can be used for marketing		
CO: 317537(A).3	Analyze the effectiveness of digital marketing and social media over traditional process		

*Ballavi*  
Course Teacher



*Ashid*  
Head Of Department  
Head Of Department  
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE  
TE AI& DS (2019 PATTERN)

<b>Course Name</b>	<b>Audit Course 6: Leadership and Personality Development</b>	<b>Course Code</b>	<b>317537(C)</b>
<b>CO's No:</b>	<b>CO Statement</b>		
CO: 317537(C).1	Explore as an individual as well as a team member		
CO: 317537(C).2	Express effectively through communication and improve interpersonal skills		
CO: 317537(C).3	Develop effective team leadership abilities		
CO: 317537(C).4	Work effectively in heterogeneous teams through the knowledge of team work, interpersonal skills and leadership qualities		

*Fallevi*

**Course Teacher**



*Said*  
**Head Of Department**

**Head Of Department**  
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE  
TE AI& DS (2019 PATTERN)

Course Name	Audit Course 6: Foreign Language( Japanese )-Module 3	Course Code	317537(D)
CO's No:	CO Statement		
CO: 317537(D).1	Apply language to communicate confidently and clearly in the Japanese language		
CO: 317537(D).2	Understand and use Japanese script to read and write		
CO: 317537(D).3	Apply knowledge for next advance level reading, writing and listening skills		
CO: 317537(D).4	Develop interest to pursue further study, work and leisure		

*Pallavi*

Course Teacher



*Said*

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA  
SCIENCE  
TE AI& DS (2019 PATTERN)

Course Name	Audit Course 6 MOOC-Learn New Skill	Course Code	317537(E)
CO's No:	CO Statement		
CO: 317537(E).1	On completion of the course, learner will acquire additional knowledge and skill.		

  
Course Teacher

  
Head Of Department



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