

Department of Computer Science & Engineering

COURSE OBJECTIVES: UNIVERSAL HUMAN VALUES (THEORY)

1	Development of a holistic perspective based on self- exploration about themselves (human	
	being), family, society and nature/existence.	
2	Understanding(or developing clarity)of the harmony in the human being, family, society and nature/existe	nce
3	Strengthening of self-reflection.	
4	Development of commitment and courage to act.	

COURSE OUTCOMES: UNIVERSAL HUMAN VALUES (THEORY)

SNO	DESCRIPTION	
CO.1	Students are expected to become more aware of themselves, and their surroundings(family, society, nature)	
CO.2	Students would become more responsible in life, and in handling problems with sustainable solution, while keeping human relationships and human nature in mind .	
CO.3	They would have better critical ability.	
CO.4	They would also become sensitive to their commitment towards what they have understood(human values, human relationship and human society).	

After completion of this course the students will be able to-

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Prof.Shamakhan/Prof.Sajidkazi

Anjuman College of Engg. & Testa., Sadar, Nagpur. ASS

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Subject: 3rd SemesterUHV



Department of Computer Science & Engineering

COURSE OBJECTIVES: OPERATING SYSTEM (THEORY)

1	To make the computer system convenient to use in an efficient manner.
2	To provide users a convenient interface to use the computer system.
3	Course description covers the classical internal algorithms and structures of operating systems, including CPU scheduling, memory management, device management and deadlock.
4	To keep track of who is using which resource, to provide efficient and fair sharing of resources among users and programs.

COURSE OUTCOMES: OPERATING SYSTEM (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Explain the basic concepts of operating system.
CO.2	Understand the process management policies and scheduling algorithms.
CO.3	Design the various memory management techniques.
CO.4	Analyze process synchronization techniques.
CO.5	Understand file system concepts.
CO.6	Evaluate deadlock detection & prevention mechanism.

Assistant Professor

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1> Mohammad Anif UdAnif 2> Drashti Goswanii Gostian

Student. Signature

Subject: 3rd semester OS

Prof. Qudsiya Naaz



Department of Computer Science & Engineering

COURSE OBJECTIVES OOP WITH JAVA (THEORY):

1	Gain knowledge about basic Java language syntax and semantics to write Java programs
	and use concepts such as variables, conditional and iterative execution methods.
2	Be able to use the Java SDK environment to create, debug, and run simple Java programs.
3	To analyze the object-oriented paradigm using java programming language
4	To implement small/medium scale java programs to resolve small business problems

COURSE OUTCOMES: OOP WITH JAVA (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION	TAXONOMY LEVEL
CO.1	Identify classes, objects and relationship among them for a specific problem.	LEVEL I
CO.2	Apply the concepts of garbage collection, polymorphism, inheritance etc	LEVEL III
CO.3	Apply numeric (algebraic) and string based computation.	LEVEL III
CO.4	Develop modularity as well as basic error handling techniques.	LEVEL VI
CO.5	Write small multithreaded programs using Java language.	LEVEL VI
CO.6	Apply appropriate problem solving strategies for the implementation of small- medium scale java application.	LEVEL III

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n Colle Subject: 3th semester OOP with JAVA Prof. Priya Motghare/ Prof. Mikhal Johnistan Colle

SSOT (CMPS.)



Department of Science & Humanities

COURSE OBJECTIVES : APPLIED MATHEMATICS-III (THEORY)

BRANCH: COMPUTER SCIENCE AND ENGINEERING

1	A primary objective is to provide a bridge for the students from lower division mathematics
	course to upper division mathematics.
2	Explain the importance of mathematics and its techniques to solve a real life problems and
	provide the limitations of such techniques and validity of the results.

Propose new mathematical and statistical questions and suggest possible software packages 3 and /or computer programming to find solutions to these questions.

COURSE OUTCOMES : APPLIED MATHEMATICS-III (THEORY)

BRANCH: COMPUTER SCIENCE AND ENGINEERING

After completion of this course the students will be able to :

CO.1	Understand the numerical methods, matrices for the solution of linear and
	nonlinear equations and the solutions of differential equations among other
	mathematical processes and activities.
CO.2	Analyze real world scenarios to recognize when matrices and probability are appropriate, formulate problems about the scenarios, creatively model these scenarios (using technology, if appropriate) in order to solve the problems using multiple approaches.
CO.3	Organize, manage and present data in a clear and concise manner.
CO.4	Develop an ability to identify, formulate and / or solve real world problems.
CO.5	Understand the impact of scientific and engineering solutions in a global and societal context. Create the ground work for post- graduate courses, specialized study , and research in computational mathematics.

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Prof.SAJID ANWAR / Prof. SAMINA ANJUM

Subject: 3th semester-M3

stant Professor (CMPS.) sistem Fronzosovi Comro. njuman College of Engg. & Tech., Sadar, Nagpur.



Department of Computer Science & Engineering

COURSE OBJECTIVES: EIT (THEORY)

1	Ability to understand and meet ethical standards and legal responsibilities.
2	Create awareness on professionals Ethics and Human Values.
3	Discuss the Privacy and Anonymity issues, Defamation and Hate speech.
4	Grain the knowledge of Copyright, Parents and Trade Secret Laws.
5	Create and understand the awareness on Whistle -blowing.

COURSE OUTCOMES: EIT (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Acquire knowledge about ethical value & principals.
CO.2	Understand key issues of privacy protection policies.
CO.3	Understand and apply Intellectual Property Rights and related law in reality.
CO.4	Understand the core values that shape the ethical behavior of an engineer/ IT Professional.
CO.5	Identity the multiple ethical interests at stake in a real-world situation.
CO.6	Develop cognitive skills in solving social problem.

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Prof. Shabana Ashraphi

Subject: 3th semester EIT



Department of Computer Science & Engineering

COURSE OBJECTIVES: CADS (THEORY)

Discuss the basic concepts of digital system that are applicable I the designing of computer architecture.
Explain concepts of basic proocessing unit of computer such as ALU, CU,MU,I/O units and arithmatic
operation used in computer
Explain various technologies used in memory system and motivate students to desin memory modules.
Discuss the different types of interrupts and interrupt handling mechanism.

COURSE OUTCOMES: CADS (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION	-
CO.1	Understand the basic concept of digital system & apply for problem solving.	
CO.2	Describe the Computer Architecture & addressing modes.	
CO.3	Understand various instruction formats.	
CO.4	Perform the arithmetic operations.	
CO.5	Design & Evaluate various memory management system.	
CO. 6	Illustrate I/O mapped and Memory mapped operations.	

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Jahed Khan 24 John Students signature

Subject: 3rd semester CADS

Prof. Anwarul Siddique nwer

Assistant Professor (CMPS) Anjuman College of Enge. & Testa, Sadar, Nagput.

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Department of Computer Science & Engineering

COURSE OBJECTIVES: COMPUTER NETWORK (THEORY)

- To study the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model and TCP/IP model.
- 2 To study the fundamentals and basics of Physical Layer, and will apply them in real time applications.
- 3 To study data link layer concepts, design issues and, protocols.
- 4 To gain core knowledge of network layer routing protocols and IP addressing.
- 5 To study process-to-process communication and congestion control mechanism.
- 6 To study about domain name, Application layer and network management.

COURSE OUTCOMES: COMPUTER NETWORK (THEORY)

SNO	DESCRIPTION
CO.1	Describe the functions of each layer in OSI model along with basic networking concepts.
CO.2	Explain physical layer functionality and its working along with transmission media with real time applications.
CO.3	Describe the functions of data link layer and explain protocols used in data link layer.
CO.4	Classify the routing protocols and analyze how to map IP addresses. Identify the issues related to transport layer, congestion control.
CO.5	Describe Quality of service, DNS, Application layer protocols & Network Security issues.

After completion of this course the students will be able -

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Jahed Khan 24 students signature

Prof. Nazish Khan/ Prof. Anwarul Siddique

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Subject: 4th semester CN

Assistant Professor (CMPS) Anjuman College of Engl & Tesh, Sadar, Nagyun



SECTION (A+B)

Department of Computer Science & Engineering

COURSE OBJECTIVES: DSPD (THEORY)

1	To introduce the fundamental concept of data structures and to emphasize the important of data structures in
	developing and implementing efficient algorithms.
2	To implement data structure algorithms by using C/C++ language.
3	To select an appropriate data structure to solve real world problem and compare alternative implementations
	data structures with respect to performance.
4	To acquire knowledge on Searching and Sorting techniques.

COURSE OUTCOMES: DSPD (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Implement and analyze different searching and sorting algorithms.
CO.2	Develop ADT for Stack data structure and its applications
CO.3	Develop ADT for Queue data structure and its applications.
CO.4	Demonstrate ability to apply knowledge of dynamic data structures like linked-lists and Extend its applications.
CO.5	Apply fundamentals of Tree data structures to implement Tree and problems including Tree traversals and implementation of Graph data structure and Graph traversals.

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sistant Professor (

Anjuman College of Engg. & Teoh., Sadar, Nagpur.

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Prof. Samina Anjum/Prof. Itrat Fatema

Subject: 4th semester DSPD



Department of Computer Science & Engineering

COURSE OBJECTIVES: DBMS (THEORY)

1	To understand general idea of database management system.
2	To develop skills to design databases using data modeling and design technique.
3	To develop skills to implement real life application which involve database handling?
4	Demonstrate an understanding of career opportunities in subject areas of designing, storage techniques, data handling and managing techniques.

COURSE OUTCOMES: DBMS (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Understand basic database concepts and data modeling techniques used in database design.
CO.2	Study the concept of functional dependency and Perform the calculus with Design database by using different normalization technique.
CO.3	Study query processing and Perform optimization on query processing.
CO.4	Understand the concepts of transaction processing and different recovery technique used in RDBMS.
°CO.5	Study and Implement advanced database which are used real time system.

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Prof. Syed Rehan/ Prof. Qudsiya Naaz Assistant Professor (CMPS.)

& Tech., Sadar, Nagpur.



Department of Science & Humanities

COURSE OBJECTIVES : DMGT (THEORY)

BRANCH: COMPUTER SCIENCE AND ENGINEERING

1	A primary objective is to provide a bridge for the student from lower division mathematics courses to upper
	division mathematics.
2	Obtain skills and logical perspectives in introductory (core) courses that prepare them for subsequent courses.
3	Develop proficiency with the techniques of mathematics and /or computer science, the ability to evaluate
	logical arguments, and ability to apply mathematical methodologies in solving real world problems.

COURSE OUTCOMES : DMGT (THEORY)

BRANCH: COMPUTER SCIENCE AND ENGINEERING

After completion of this course the students will be able to:

CO.1	Apply graph theory models of data structures and state mechanics to solve problems of connectivity and constraint satisfaction.
CO.2	Gain an introduction into how mathematical models for engineering are designed, analyzed and implemented in industry and organizations.
CO.3	Reason mathematically about basic data types and structures (such as numbers, set, graphs, and trees) used in computer algorithms and systems ; distinguish rigorous definitions and conclusions from merely plausible ones,
CO.4	Analyze real world scenarios to recognize when logic, sets, functions are appropriate, formulate problems about the scenarios, creatively model these scenarios (using technology, if appropriate) in order to solve the problems using multiple approaches.
CO.5	Apply knowledge of mathematics, physics and modern computing tools to scientific and engineering problems .Apply their knowledge in life long learning.

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Prof.SAJID ANWAR / Prof. SAMINA ANJUM

Subject: 4th semester- DMGT

Assistant Professor (CMPS.) Anjuman College of Engg. & Tech., Sadar, Nagpur.



Department of Computer Science & Engineering

COURSE OBJECTIVES TOC (THEORY):

1	To discuss the Chomsky classification of formal language with discussion on grammar and au mata for regular, context- free, context sensitive and unrestricted language.	or
2	Understand the basic properties of Turing Machines and computing with Turing machines	and the second se
3	To discuss the notion of decidability.	-
4 ,	To compute Ackerman function and analyze recursively and non-recursively enumerable language.	and at the

COURSE OUTCOMES: TOC (THEORY)

After completion of this course the students will be able -

DESCRIPTION
Design finite automata and its minimization along with Moore and Mealy machines.
Apply regular expression and create grammar for the same.
Design context free grammar and various normal forms of CFGs.
Generate Push Down Automata for the given CFG and inter-conversion of the same.
Create Turing machine for the grammar and deal with Recursive and ecursive Enumerable languages.

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Prof. Imteyaz Shahzad/ Prof. Saima Ansari

Subject: 4th semester 1

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Assistant Professor (CMPS.) Anjuman College of Engg. & Tech., Sadar, Nagpur.



Department of Computer Science & Engineering

COURSE OBJECTIVES: SP (THEORY)

1	To acquire knowledge about various system software programs	
2	To understand the design of Assembler	
3	To understand concept and design of microprocessor and various types of loaders	
4	To understand the working of Compiler, Interpreter and various types of device drivers.	

COURSE OUTCOMES: SP (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Identify the relevance of different system programs.
CO.2	Describe the various data structures and passes of assembler design.
CO.3	Identify the need for different features and designing of macros
CO.4	Distinguish different loaders and linkers and their contribution in developing efficient user application
CO.5	Grab the concepts of phases of compilers, LEX and YACC

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PROF. NAZISH KHAN NOUTER SOI. & ENGG. ANJUMAN COLLEGE OF ENGG. & TECH. ADAR, NAGPUR-449401.

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Prof. Abdul Razzaque/ Prof. Ayaz Khan

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Subject: 4th semester SP

& Tech., Sadar, Nagpur.



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ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY MANGALWARI BAZAAR ROAD, SADAR, NAGPUR - 440001.

Department of Computer Science & Engineering

COURSE OBJECTIVES: EFFECTIVE TECHNICAL COMMUNICATION (THEORY)

CAT/MAT/XAT/SNAP/GMAT/GATE etc. They will also acquire language skills required to write their Reviews /Projects/Reports	
They will also acquire language skills required to write their Reviews /Projects/Reports	
They will be able to organize their thoughts in English and hence face job intervi-	ws
T n	They will be able to organize their thoughts in English and hence face job intervie

COURSE OUTCOMES: EFFECTIVE TECHNICAL COMMUNICATION (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Acquire knowledge of structure of language
CO.2	Explain face competitive exams and the interview process and can become employable.
CO.3	Develop business writing skills.
CO.4	Become familiar with technology enabled communication and can develop technical

Students signature. Ismail Akboni HS. Rabiya Zioldiquee Kubiye

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Prof. Sajid kazi

Assistant Professor (CMPS.)Subject: 5th semester ETC Anjuman College of Engg. & Tech., Sadar, Nagpur.



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Department of Computer Science & Engineering

COURSE OBJECTIVES: ARTIFICIAL INTELLIGENCE (THEORY)

1	To understand the basic principal and concepts of AI.
2	To create appreciation and understanding the achievements of AI and the theory underlying those
	achievements.
3	To create and understanding of the basic issues of knowledge presentation.

COURSE OUTCOMES: ARTIFICIAL INTELLIGENCE (THEORY)

SNO	DESCRIPTION
CO.1	Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents.
CO.2	Analyze and formalize the problem as a state space, graph, design heuristics and select among different search or game based techniques to solve them.
CO.3	Create and understanding of the basic issues of knowledge presentation.
CO.4	Formulae and solve problems with uncertain information using Bayesian approaches.
CO.5	Attain the capability to represent various real life problem domain using logic based techniques

stant Professor (CMPS.)

Anjuman 8 Tech

After completion of this course the students will be able -

Prof. Samina Anjum

Subject: 5th semester AI

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ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY MANGALWARI BAZAAR ROAD, SADAR, NAGPUR - 440001.

Department of Computer Science & Engineering

COURSE OBJECTIVES: SOFTWARE ENGINEERING PROJECT MANAGEMENT (TH)

1	To understand general idea of software engineering.
2	To develop skills to design various software process models.
3	To develop skills required for software testing and various risk strategies.

COURSE OUTCOMES: SOFTWARE ENGINEERING PROJECT MANAGEMENT (TH)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Understand software engineering methods, practices, process models and application. (L2)
CO.2	Analyze various software engineering lifecycle models and apply methods for design and development of software projects. (L4)
CO.3	Analyze and extract requirements for product and translate these into a documented design using different modeling techniques. (L4)
CO.4	Understand and apply software testing methods and types, and to understand debugging concept with various testing methods. (L2 & L3)
CO.5	Identify and apply the principles, processes and main knowledge areas for software project management. (L4 & L3)

Students. Rell No. same Vaishnavithomne Qaishnavi 09 D) Bilgeer Khwaja Deena Azhur Au 21 2) のからい 03 Eram Falena Juneud sheikh 11 46 Shaqil Malli Assistant Professor (CMPS.) 61 Anjuman College of Engg & Tech., Sadar, Nagpur, Subject: 5th Semester SEPM Prof. M. S. Khatib/ Prof. Sadia Patka



Department of Computer Science & Engineering

COURSE OBJECTIVES:TCP/IP(THEORY)

1	To create a comprehension of fundamental TCP/IP concept and basic theory.
2	To Build understanding of and functionality of TCP/IP Protocol set.
3	To Introduce the student to basic definition of networking and advanced computer networking courses
4	To understand and evaluate various TCP/IP Interface Protocol.

COURSE OUTCOMES:TCP/IP(THEORY)

After completion of this course the students will be able to-

S.NO.	DESCRIPTION
CO.1	Enumerate the layers of the TCP/IP model.
CO.2	Analyze the services of TCP/IP protocol and be able to deal with its layers Also the concept of IP addressing.
CO.3	Acquire the knowledge of routing protocol.
CO.4	Familiarize students with the basic computer network protocol and they can be used to help develop and execute network.
CO.5	Generate the solution for basic issues of internet mechanism and its security.

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Prof. Nikita Katariya

Assistant Professor (CMPS.) Anjuman College of Engg. & Tech., Sadar, Nagpur. Subject: 5th semester TCP/IP



Department of Computer Science & Engineering

COURSE OBJECTIVES DAA (THEORY):

1	Analyze the asymptotic performance of algorithm.	
2	Apply important algorithmic design paradigms and methods of analysis.	
3	Solve simple to moderately difficult algorithmic problems arising in applications.	
4	Able to demonstrate the hardness of simple NP- complete problems.	

COURSE OUTCOMES: DAA (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Illustrate different approaches for analysis and Design of efficient algorithment of Analy performance of various algorithms using asymptotic notations.
CO.2	Determine and Apply various divide & conquer strategies and greedy approaches solving a given computational problem.
CO.3	Demonstrate and Solve various realtime problems using the concept of dynam programming
CO.4	Use of backtracking and graph traversal techniques for Solving real world problems
CO.5	Recall and Classify the NP- hard and NP-complete problems

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Prof. Abdul Razzaque/ Prof. Saima Ansari

Subject: 5th semester I

Assistant Professor (CMPS.) Anjuman College of Engg. & Tech., Sedar, Nagpur.



Department of Computer Science & Engineering

COURSE OBJECTIVES: ELECTIVE- I DWM (THEORY)

1	To understand the basic concepts of Data warehouse and Data Mining techniques.		
2 '	Capable to create a data warehouse and to process raw data.	<u> </u>	
3	Able to apply basic classification, clustering on a set of data.	<u> </u>	
4	Able to identify frequent data items and to apply association rule on a set of data.		
5	To learn recent trends of data mining such as web mining.		

COURSE OUTCOMES: ELECTIVE- I DWM (THEORY)

SNO	DESCRIPTION	
CO.1	To Understand the basic concepts of Data Warehouse and Data Mining.	
CO.2	Capable to Create a data warehouse and to process raw data.	
CO.3	Able to Apply basic classification, clustering on a set of data.	
CO.4	Able to identify frequent data items and to apply association rule on a set of data.	
CO.5	To learn recent trends of data mining such as web mining.	

After completion of this course the students will be able

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Prof. Saima Ansari

Subject: 5th s ster DI

Assistant P Anjuman College of Engg. & Tech., Sadar, Nagpur.

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Department of Computer Science & Engineering

COURSE OBJECTIVES IPR(AUDIT COURSE):

1.	To introduce fundamental aspects of Intellectual property Rights.
2.	To disseminate knowledge on patents, patent regime in India and abroad and registration aspects.
3	To disseminate knowledge on copyrights and its related rights and registration apects.
4	To disseminate knowledge on trademarks and registration aspects.
5	To disseminate knowledge on Design, Geographical Indication (GI), Plant Variety and Layout Design Protection and their registration aspects

COURSE OUTCOMES IPR(AUDIT COURSE):

After completion of this course the students will be able -

DESCRIPTION	
Understand fundamental aspects of Intellectual property Rights.	
Apply knowledge on patents, patent regime in India and abroad and registration aspects.	
Be capable of getting copyrights and its related rights and registration aspects	
Be capable of getting trademarks and registration aspects	
Apply knowledge on Design, Geographical Indication (GI), Plant Variety and Eayout Design Protection and their registration aspects.	

Raycut Gradge - [K in MEAD Syar value ANJUMAN NGG. Signature Prof. Priya Motghare 11

Subject: 6th semester IPR

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Department of Computer Science & Engineering

COURSE OBJECTIVES DATA SCIENCE (THEORY):

1	To Understand the basic Concepts of Data Science
2	Demonstrate an Understanding of Statistics and Classification Concepts that are vital for data Science
3	Demonstrate the Implementation of Data Science experiments through Python or R Language

DS COURSE OUTCOMES: DAG (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION	
CO.1	Understanding the Significance of exploratory data analysis in Data Science.	
CO.2	Demonstrate the usage of Random Sampling and bias in a given dataset.	
CO.3	Analysis of various Statistical Experiments through various types Popular Testing methods.	
CO.4	Design and Analysis of Regression techniques to estimate outcomes and detect anomalies	
CO.5	Ability to Implement Classification techniques	

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Prof. Naveed Zishan/ Prof. heena Pathan

Subject: 6th semester DS



Department of Computer Science & Engineering

COURSE OBJECTIVES: AAD (THEORY)

I Demonstrate their understanding of the fundamentals of Android Operating	System
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- 2 Demonstrate their skills of using Android Software development tools
- 3 Develop software with reasonable complexity on mobile platform.
- 4 Deploy software to mobile devices.
- 5 Debug programs running on mobile devices

COURSE OUTCOMES: AAD (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION	
CO.1	Describe the components and structure of a mobile development framework	
CO.2	Understand the specific requirements, possibilities and challenges when developing for a mobile context.	
CO.3	Apply Java programming concepts to Android application development	
CO.4	Design and develop user Interfaces for the Android platform	
CO.5	Publish an application to the Android Market	

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Prof. Azra Shireen

Astha A. Shende Ukanlele Vanshita · kamble

Subject: 6th semester AAD



Department of Computer Science & Engineering

COURSE OBJECTIVES: CD (THEORY)

1	Understand the phases of the Compiler and utilities of Automata.
2	Give the implementation details of Top-Down and Bottom-up Parsers and its types.
3	Describe the importance of the Semantic Phase and Symbol Table in Computer.
4	Give the description for the Synthesis Model of the Computer w.r.t Analysis Model.
5	Understand the Architecture of the Computer and few advanced topics for a Compiler.

COURSE OUTCOMES: CD (THEORY)

After completion of this course the students will be able -

DESCRIPTION	
Define the Compiler along with phases and basic programs in LEX.	
Develop programs for various kinds of the Parsers	
Write simple programs related to Type Checking, Parameter Passing and Overloading	
Implement the concept of Code Optimizations and Code Generations.	
Provide the Case Studies of Object-Oriented Compilers.	

Rajat Gaadge

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Students signature

AN ENGG. ENGG. & TECH. AHAR, NAGPUR-440001.

Prof. Manish Asudani/ Prof. Ayaz Khan

Subject: 6th semester CD



Department of Computer Science & Engineering

COURSE OBJECTIVES: MACHINE LEARNING (ELECT - II)

1 To enable the students with basic knowledge on Machine Learning Techniques.

2 To develop skills of applying Machine Learning Techniques for solving real world problem's.

COURSE OUTCOMES: MACHINE LEARNING (ELECT - II)

After completion of this course the students will be able -

S.NO	DESCRIPTION
'CO.1	Understand basics of machine learning techniques. (L2)
CO.2	Understand types of regression techniques. (L2)
CO.3	Be capable of applying classification techniques. (L3)
CO.4	Apply unsupervised machine learning techniques. (L3)
CO.5	Apply and evaluate the machine learning techniques to real world problems. (L3 and L5)



Prof. M. S. Khatib/ Prof. Sadia Patka



Subject: 6th Semester ML (Elect - II)



Department of Computer Science & Engineering

Course Objectives: LINUX FUNDAMENTAL (Theory)

1	Understand basic terminology of Linux.
2	Conduct basic activities such as installation, troubleshooting and navigation.
3	Understand and write shell script and management of failure recovery

COURSE OUTCOMES: LINUX FUNDAMENTAL (Theory)

After completion of this course the students will be able -

SNO	DESCRIPTION	
CO.1	Understand Linus Architecture, different Linux installation and Linux Commands.	
CO.2	Effectively use Linux environment using shell, file system, scripts, filters and program development tools.	
CO.3	Program user, Group management. Package management through commands.	
CO.4	Program storage management and failure recovery through commands.	
CO.5	Automate tasks and write simple programs using shell scripts.	

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HEAD. CONTENT SUL & ENGG. TENOG. & TECH HEAD SADAR, NAGPUR-449901 ANJUMAN COLL

Prof. SAYEMA KAUSAR

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Subject:6th semester LF



Department of Computer Science & Engineering

COURSE OBJECTIVES: ECONOMICS OF IT INDUSTRY (THEORY)

1 Objectives of the course is to make learners aware about the impact of Information. 2 Communication Technology. 3 Information technology revolution on Indian Economy and their seamless interaction

COURSE OUTCOMES: ECONOMICS OF IT INDUSTRY (THEORY)

After completion of this course the students will be able

SNO	DESCRIPTION	
CO.1	Distinguished between micro and Macroeconomics.	
CO.2	Relate economics concept with IT Industry.	
CO.3	Identify key trends in IT industry.	
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CO.4	Understand the key economics drivers of IT industry.	
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Students signature. Kazan Mandhe Karas Saniya Kazê Sonita

Prof. Sajid kazi

istant Professor (

& Tech.,

Sadar, Negpur.

Professor Connege Subject: 6th semester EIIT



Department of Computer Science & Engineering

COURSE OBJECTIVES:DWM(THEORY)

Describe fundamental concept of mining various data mining functionalities & describe and apply
various preprocessing technique.
Sketch and explain multidimensional data model and data warehouse architecture.
t will be able to
Define and describe basic concepts of association rule mining and correction and will be able to
evaluate various association rule mining algorithm.
Deint out the challenges in advanced data mining concept such as time series data mining. social
network analysis, graph mining etc.

COURSE OUTCOMES:DWM(THEORY)

After completion of this course, the students will be able -

SNO	DESCRIPTION
CO.1	Create a dataset for any application in the arff format.
CO.2	Apply various association rule mining rule algorithms on the given data set
CO.3	Apply various classification algorithms on the given dataset.
CO.4	Apply various clustering algorithms on the given dataset.
CO.5	Create a database using wamp server and establish a database connectivity between weka and wamp server.

Janjali Awale JAN MEDizon B. & TECH. Mohammed Faizon MI. Students signerurs ZISH KHAN & ENGG. HEAI ANJUN

Prof. KamleshW.Kelwade/ Prof.Nikita Katariya

Subject: 7th semesterDWM



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OBJECTIVES:

- Understand TCP/IP Protocol Suite and ISO OSI Reference Model. 1
- 2 Understand LAN, WAN and basics of Internet.
- 3 Study different types of Addressing.
- Study of various layers and its functions. 4
- 5 Understand the concepts of switching and Traffic Engineering and security at IP.

COURSE OUTCOMES:

	Antimizing C & Aller and an antipation of the second second	
S.NO.	Upon completion of this course students will be able to:	
CSE403.1	differentiate functioning of OSI and TCP/IP Model; explain the basics of networking and Internet.	- P
CSE403.2	classify and solve problems on IP Addressing.	
CSE403.3	analyze the roles, services and features of various Network Layer and Routing protocols.	
CSE403.4	analyze the roles, services and features of Transport layerProtocols.	
CSE403 5	explain the concepts of Switching Technologies and Traffic	
001100.0	Engineering.	
CSE403.6	explain security at IP, compare IPv4 and IPv6.	
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St.M	PROF. NAZISH KHAN Sayal	Awale

ENGG. ENGG. & TECH. HEAD. CO ANJUMAN

Nazish khan / Ritesh Shrivastav

VII SEM TCP/IP



Department of Computer Science & Engineering

COURSE OBJECTIVES: LP (THEORY)

	To introduce the major concept areas of language translation and compiler design.
2	To enrich the knowledge in various phases of compiler ant its use, code optimization
	techniques, machine code generation, and use of symbol table.
3	To extend the knowledge of parser by parsing LL parser and LR parser.
4	To provide practical programming skills necessary for constructing a compiler

COURSE OUTCOMES: LP (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Explain concept of language translation and design complexities and classify various types of compilers. Show how finite automata can be used to design lexical analysis.
CO.2	Apply syntax analysis and construct parser. List different types of grammar and write context free grammar for different programming language constructs.
CO.3	Explain method of language generation using syntax directed translation scheme and its implementation for different programming language constructs.
CO4	Explain use of symbol table and its design issues in compiler design. different types of Errors, method to detect and correct these errors.
CO5	Explain and apply concept of code optimization techniques and its implementation
CO6	Explain the issues in code generation and implementation of code generator. Study different machine dependent optimization techniques.

this Arrey Sherten musich syed American Rizwan PROF. NAZISH KHAN HEAD, COMPLITER SCI. & ENGG. ANJUMAN COLLEGE OF ENGG. & TECH. SADAR, NAGPUR-440001.

Prof. Manish K Assudani/ Prof. Imtiyaz Shahzad

Subject:7th semester LP



Department of Computer Science & Engineering

COURSE OBJECTIVES: MOBILE COMPUTING (THEORY)

1	To introduce the basic concepts and principles in mobile computing.	
2	To provide exposure to the major techniques involved and networks and systems issues for the design and	
3	To understand the ad hoc networks and related concepts.	
3	To understand the ad hoc networks and related concepts.	_

COURSE OUTCOMES: MOBILE COMPUTING (THEORY)

After completion of this course the students will be able -

SNO	DESCRIPTION
CO.1	Explain basic concepts and application of Wireless communication, 2G Services, types of channel and
	antennas.
CO.2	Estimate the MAC protocols for GSM gain insight into SDMA, FDMA, TDMA and CDMA.
CO.3	Analyze the GSM architecture, protocols and their new data services.
CO.4	Describe about the mobile IP Network layer & TCP concept.
CO.5	Recognize the concepts and design issues of the architecture and the MANET protocols.
<u> </u>	Area the protocols and platforms of mobile computing WAP

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Prof. Syed Rehan/ Prof. Itrat Fatema

Subject: 7th semester MC



Department of Computer Science & Engineering

COURSE OBJECTIVES: BLOCK CHAIN & ITS APPLICATION (THEORY)

- Learn its capability of providing a transparent, secured, tamper-proof solution for interconnecting different stakeholders in a trustless setup.
 This subject will cover the basic design principles of Blockchain technology and its applications over different sectors.
- 3 Additionally, the course also provides tutorials on setting up blockchain applications using one of the well-adopted permissionless blockchain platforms- Ethereum, and one permissioned blockchain platform – Hyperledger.
- 4 Provide its applications.

COURSE OUTCOMES: BLOCK CHAIN & ITS APPLICATION (THEORY)

After completion of this course the students will be able to-

SNO	DESCRIPTION
CO.1	Understand basic crypto premitives
CO.2	Understand elements and evolution of blockchain
CO.3 `	Understand consensus in permissionless and permissioned models
CO.4	Hands on ethereum smart contracts and hyperledgers
CO.5	Perform decentralized identity management, interoperability

Sayyed Amesha Amesha Acimna Malik Amalik Ayman Findous Findous

Prof.Saima Ansari/Samina Anjum



Department of Computer Science & Engineering

COURSE OBJECTIVES: SOCIAL NETWORK (THEORY)

1	To understand highly interconnected and hence more complex social networks
2	To represent connected social networks in form of graph
3	To apply graph theory, sociology, game theory
4	To use tools and extract statistics from social networks

COURSE OUTCOMES: SOCIAL NETWORK (THEORY)

After completion of this course the students will be able to-

SNO	DESCRIPTION
CO.1	Learn social networks, its types and representation
CO.2	Understand weak ties, strong and weak relationships, homophily and calculate
CO.3	Analyse links
CO.4	Understand Power lows and Rich-Get-Richer Phenomena
CO.5	Understand small world Phenomenon

Students signature. Delip Pal Delip Pal Delip Pal Delip Pal Delip Pal Delip Pal

Prof. Ritesh Shrivastava/ Prof.Shabana Ashraphi

ANJUMAN