Department of CSE [Artificial Intelligence & Machine Learning]

Course Coordinator for 2021-2025 Batch

S.No.	Course Code	Course Title	Course Coordinator
		I SEMESTER	
1	C101	Algebra and Calculus	M.Swetha
2	C102	Engineering Chemistry	K.Saritha
3	C103	Programming for problem solving	Rajinikanth
4	C104	English	K.Ranjith Kumar
5	C105	Engineering Workshop	D.Sravani
6	C106	Engineering Chemistry Lab	K.Saritha
7	C107	English Language and Communication Skills Lab	K.Ranjith Kumar
8	C108	Programming for Problem Solving Lab	Rajinikanth
		II SEMESTER	
9	C109	Ordinary Differential Equations and Vector Calculus	Vasumathi
10	C110	Applied Physics	M.Naresh Kumar
11	C111	BasicElectronics & Electrical Engineering	J.Ratna Babu
12	C112	Engineering Graphics	M.Gowtham
13	C113	Applied Physics Lab	M.Naresh Kumar
14	C114	Basic Electrical &Electronics Engineering Lab	J.Ratna Babu
15	C115	Basic Elements of Engineering Technology	M.Sravanthi
16	C116	Environmental Science	K.Sowmya Kiran
		III SEMESTER	
17	C201	Design & Analysis Algorithms	Dr.K.Mahesh
18	C202	Data Structures using C	M.Ravindran
19	C203	OOPS Through Java	S. Ramchandra Reddy
20	C204	Theory of Computation	G. Parvathi Devi
21	C205	Programming with Python	Dr S Rao Chintalapudi
22	C206	Data Structure using C Lab	M.Ravindran
23	C207	Python Lab	Dr S Rao Chintalapudi
24	C208	OOPS Through Java Lab	S. Ramchandra Reddy
25	C209	Constitution of India	Ranjith Kumar Reddy
		IV SEMESTER	
26	C210	Data Base Management Systems	B. Swaroopa Rani
27	C211	Analog and Digital Electronics	K.Prasanna kumara
28	C212	Computer Oriented Statistical Methods	Dr.K.Bhagya Lakshmi

29	C213	Operating Systems	M.Ravindran
30	C214	Computer Organization	Dr. G. Vinoda Reddy
31	C215	Operating Systems Lab	M.Ravindran
32	C216	Data Base Management Systems Lab	B. Swaroopa Rani
33	C217	Analog and Digital Electronics Lab	K.Prasannakumari
34	C218	Gender Sensitization Lab	K.Jyothi / Shilpa Chandrika
V SEMESTER			
35	C301	Data Mining	M.Balaji
36	C302	Computer Networks	V.RavinderNaik
37	C303	Web Technologies	I.Kranthi Kumar
38	C304	Data analytics	Dr. K. Mahesh
39	C305	Distributed databases	G. Parvathi Devi
40	C306	Data Mining Lab	M.Balaji
41	C307	Computer Networks & Web Technologies Lab	V.Ravinder Naik
42	C308	R Programming Lab	Sk.Sharif
43	C309	Intellectual PropertyRights	B.Durga Bhavani
VI SEMESTER			
44	C310	Artificial Intelligence	B. Prashanth
45	C311	Compiler Design	G. Parvathi Devi
46	C312	Software Engineering	U. Saritha
47	C313	Software Testing Methodologies	B. Swaroopa Rani
48	C314	Introduction to data science	Bushra Tarannum
49	C315	Artificial Intelligence Lab	B. Prashanth
50	C316	Advanced Communication Skills Lab	K.Ranjith Kumar
51	C317	Software Testing Methodologies Lab	B. Swaroopa Rani
VII SEMESTER			
52	C401	Business Economics & Financial Analysis	D.Kanaka Durga
53	C402	Machine Learning	B. Swaroopa Rani
54	C403	Cloud Computing	G. Parvathi Devi
55	C404	Deep Learning	M. Ravindran
56	C405	InformationRetrieval system	A. Ramesh
57	C406	Machine Learning Lab	B. Swaroopa Rani
58	C407	Industry Oriented Mini Project	V.Malsoru
59	C408	Seminar	V.Malsoru
60	C409	Project Stage-I	V.Malsoru
VIII SEMESTER			
61	C410	Organizational Behaviour	Dr Mallika rao
62	C411	Cyber Forensics	R.Lavanya
63	C412	Scripting Languages	A. Ramesh
64	C413	Project Stage-II	V.Malsoru

Coordinator

HOD-CSE (AI&ML)

Head
Department of CSE (AI & ML)
CMR Technical Campus
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Hyderabad, Telangana - 501 401.

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Department of CSE |Artificial Intelligence & Machine Learning

Module Coordinator for 2021-2025 Batch

S.No	Course Code	Course Title	Module Name	Module Coordinator	Signature
1	C101	Algebra and Calculus	Basic Sciences & Humanities	M. Rajender	
2	C109	Ordinary Differential Equations and Vector Calculus	Basic Sciences & Humanities	M. Rajender	
3	C213	Computer Oriented Statistical Methods	Basic Sciences & Humanities	M. Rajender	
4	C102	Engineering Chemistry	Basic Sciences & Humanities	Dr. T. Leena Vinolia	
5	C106	Engineering Chemistry Lab	Basic Sciences & Humanities	Dr. T. Leena Vinolia	
6	C104	English	Basic Sciences & Humanities	K. Ranjith Kumar	
7	C107	English Language and Communication Skills Lab	Basic Sciences & Humanities	K. Ranjith Kumar	
8	C105	Engineering Workshop	Basic Sciences & Humanities	M. Gowtham	
9	C112	Engineering Graphics	Basic Sciences & Humanities	M. Gowtham	
10	C110	Applied Physics Lab	Basic Sciences & Humanities	M. Naresh Kumar	
11	C113	Applied Physics	Basic Sciences & Humanities	M. Naresh Kumar	
12	C114	Basic Elements of Engineering Technology	Basic Sciences & Humanities	M. Sravanthi	
13	C116	Environmental Science	Basic Sciences & Humanities	P. Soumya Kiran	
14	C209	Constitution of India	Basic Sciences & Humanities	G. Shilpa Chandrika	
15	C218	Gender Sensitization Lab	Basic Sciences & Humanities	G. Shilpa Chandrika	
16	C316	Advanced Communication Skills Lab	Basic Sciences & Humanities	G. Shilpa Chandrika	
17	C309	Intellectual Property Rights	Basic Sciences & Humanities	G. Shilpa Chandrika	
18	C111	BasicElectronics & Electrical Engineering	Basic Electrical and Engineering	K.Prasanna Kumari	
19	C114	Basic Electrical &Electronics Engineering Lab	Basic Electrical and Engineering	K.Prasanna Kumari	
20	C211	Analog and Digital Electronics	Basic Electrical and Engineering	K.Prasanna Kumari	
21	C217	Analog and Digital Electronics Lab	Basic Electrical and Engineering	K.Prasanna Kumari	
22	C103	Programming for problem Solving	Programming Languages	M.Ravindran	
23	C108	Programming for Problem Solving Lab	Programming Languages	M.Ravindran	
24	C203	OOPS Through Java	Programming Languages	M.Ravindran	
25	C205	Programming with Python	Programming Languages	M.Ravindran	
26	C207	Python Lab	Programming Languages	M.Ravindran	
27	C203	OOPS Through Java Lab	Programming Languages	M.Ravindran	
28	C210	Data Base Management Systems	Programming Languages	M.Ravindran	
29	C216	Data Base Management Systems Lab	Programming Languages	M.Ravindran	
30	C303	Web Technologies	Programming Languages	M.Ravindran	
31	C307	Computer Networks & Web Technologies Lab	Programming Languages	M.Ravindran	

32	C308	R Programming Lab	Programming Languages	M.Ravindran	
33	C412	Scripting Languages	Programming Languages	M.Ravindran	
34	C405	Information Retrieval System	Computer Science	M.Ravindran	
35	C201	Design & Analysis Algorithms	Computer Science	Dr. G. Vinoda Reddy	
36	C202	Data Structures using C	Computer Science	Dr. G. Vinoda Reddy	
37	C204	Theory of Computation	Computer Science	Dr. G. Vinoda Reddy	
38	C206	Data Structure using C Lab	Computer Science	Dr. G. Vinoda Reddy	
39	C213	Operating Systems	Computer Science	Dr. G. Vinoda Reddy	
40	C214	Computer Organization	Computer Science	Dr. G. Vinoda Reddy	
41	C215	Operating Systems Lab	Computer Science	Dr. G. Vinoda Reddy	
42	C302	Computer Networks	Computer Science	Dr. G. Vinoda Reddy	
43	C311	Compiler Design	Computer Science	Dr. G. Vinoda Reddy	
44	C312	Software Engineering	Computer Science	Dr. G. Vinoda Reddy	
45	C313	Software Testing Methodologies	Computer Science	Dr. G. Vinoda Reddy	
46	C314	Introduction to Data Science	Computer Science	Dr. G. Vinoda Reddy	
47	C317	Software Testing Methodologies Lab	Computer Science	Dr. G. Vinoda Reddy	
48	C411	Cyber Forensics	Computer Science	Dr. G. Vinoda Reddy	
49	C301	Data Mining	Data Science	Dr. K. Mahesh	
50	C304	Data analytics	Data Science	Dr. K. Mahesh	
51	C305	Distributed databases	Data Science	Dr. K. Mahesh	
52	C306	Data Mining Lab	Data Science	Dr. K. Mahesh	
53	C403	Cloud Computing	Data Science	Dr. K. Mahesh	
54	C310	Artificial Intelligence	Artificial Intelligence	Dr. S Rao Chintalapudi	
55	C315	Artificial Intelligence Lab	Artificial Intelligence	Dr. S Rao Chintalapudi	
56	C402	Machine Learning	Artificial Intelligence	Dr. S Rao Chintalapudi	
57	C404	Deep Learning	Artificial Intelligence	Dr. S Rao Chintalapudi	
58	C406	Machine Learning Lab	Artificial Intelligence	Dr. S Rao Chintalapudi	
59	C401	Business Economics & Financial Analysis	Management	D.Kanaka Durga	
60	C410	Organizational Behaviour	Management	D.Kanaka Durga	
61	C407	Industry Oriented Mini Project	Seminar & Project	Dr. V.Malsoru	
62	C408	Seminar	Seminar & Project	Dr. V.Malsoru	
63	C409	Project Stage-I	Seminar & Project	Dr. V.Malsoru	
64	C413	Project Stage-II	Seminar & Project	Dr. V.Malsoru	

Coordinator

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Algebra and Calculus | **Regulation: R20**
Year & Sem: I - I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Swetha | **Course Code: C101**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C101.1	Write the matrix representation of a set of linear equations and to analyze the solution of the system of equations.
C101.2	Find the Eigen values and Eigenvectors and reduce the quadratic form to canonical form using orthogonal transformations.
C101.3	Analyze the nature of convergence of sequence and series.
C101.4	Solve problems involving mean value theorems and evaluate the improper integrals using Beta and Gamma functions.
C1015	Find the extreme values of functions of two variables with/ without constraints.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3	3	-	-	-	-	-	-	-	-	-	-
C101.2	-	-	-	-	3	-	-	-	-	-	-	-
C101.3	-	-	-	3	-	-	-	-	-	-	-	-
C101.4	-	-	3	-	-	3	3	-	-	-	-	-
C1015	3	-	-	-	3	-	-	-	-	-	-	-
Average	3	3	3	3	3	3	3	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Algebra and Calculus | **Regulation: R20**
Year & Sem: I - I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Swetha | **Course Code: C101**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C101.1	Write the matrix representation of a set of linear equations and to analyze the solution of the system of equations.
C101.2	Find the Eigen values and Eigenvectors and reduce the quadratic form to canonical form using orthogonal transformations.
C101.3	Analyze the nature of convergence of sequence and series.
C101.4	Solve problems involving mean value theorems and evaluate the improper integrals using Beta and Gamma functions.
C1015	Find the extreme values of functions of two variables with/ without constraints.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C101.1	-	3	-
C101.2	-	3	3
C101.3	-	-	3
C101.4	-	3	3
C1015	-	3	3
Average	-	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Engineering Chemistry
Year & Sem: I - I
Course Coordinator Name: K.Saritha

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C102

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C102.1	The knowledge of atomic, molecular and complex compound structures.
C102.2	The required skills to get clear concepts on hard water, hardness and different purification methods of water.
C102.3	The required principles and concepts of electro chemistry, corrosion and in understanding the problem of water and its treatments.
C102.4	The knowledge of configurational and conformational analysis of molecules and reaction mechanisms.
C102.5	The knowledge of electronic, infrared and NMR spectra.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C102.1	3	3	3	3	-	-	-	-	-	-	-	-
C102.2	3	-	-	3	3	3	-	-	-	-	-	-
C102.3	-	-	-	-	3	3	3	-	-	-	-	-
C102.4	-	3	-	3	-	3	3	-	-	-	-	-
C102.5	-	3	3	-	-	-	-	-	-	-	-	-
Average	3	3	3	3	3	3	3	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Engineering Chemistry | **Regulation: R20**
Year & Sem: I – I | **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Saritha | **Course Code: C102**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C102.1	The knowledge of atomic, molecular and complex compound structures.
C102.2	The required skills to get clear concepts on hard water, hardness and different purification methods of water.
C102.3	The required principles and concepts of electro chemistry, corrosion and in understanding the problem of water and its treatments.
C102.4	The knowledge of configurational and conformational analysis of molecules and reaction mechanisms.
C102.5	The knowledge of electronic, infrared and NMR spectra.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C102.1	-	3	3
C102.2	3	3	3
C102.3	3	3	3
C102.4	3	-	3
C102.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Programming for Problem Solving | **Regulation: R20**
Year & Sem: I - I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Rajinikanth | **Course Code: C103**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C103.1	To write algorithms and to draw flowcharts for solving problems.
C103.2	To understand use arrays, pointers, strings and structures to write C programs.
C103.3	To understand the files using C programs.
C103.4	To decompose a problem into functions and to develop modular reusable code.
C103.5	To understand the Searching and sorting problems.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103.1	3	3	-	-	-	-	-	-	-	-	-	-
C103.2	-	3	3	-	-	-	-	-	-	-	-	-
C103.3	-	-	3	3	-	-	-	-	-	-	-	-
C103.4	-	-	-	-	3	-	-	-	-	-	-	-
C103.5	-	-	-	3	-	-	-	-	-	-	-	-
Average	3	3	3	3	3	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Programming for Problem Solving **Regulation: R20**

Year & Sem: I - I **Branch: CSE (AI&ML)**

Course Coordinator Name: Rajinikanth **Course Code: C103**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C103.1	To write algorithms and to draw flowcharts for solving problems.
C103.2	To understand use arrays, pointers, strings and structures to write C programs.
C103.3	To understand the files using C programs.
C103.4	To decompose a problem into functions and to develop modular reusable code.
C103.5	To understand the Searching and sorting problems.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C103.1	3	3	-
C103.2	3	3	-
C103.3	-	-	-
C103.4	3	3	-
C103.5	3	3	-
Average	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: English
Year & Sem: I - I
Course Coordinator Name: K.Ranjith Kumar

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C104

Course Outcomes:

At the end of the course student will be able to	
C104.1	Generate ideas and create effective sentence structures in spoken and written forms.
C104.2	Comprehend passages and texts critically and respond appropriately.
C104.3	Select specific approaches to study and retain information.
C104.4	Interpret technical content using theoretical and practical components of English language.
C104.5	Communicate effectively in formal and informal contexts.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	-	-	-	-	-	3	3	-	3	3	3	-
C104.2	-	-	-	-	3	-	-	-	-	3	-	-
C104.3	-	-	-	-	-	-	3	3	-	3	-	-
C104.4	-	-	-	-	-	-	-	3	-	3	-	-
C104.5	-	-	-	-	-	-	-	-	-	3	-	3
Average	-	-	-	-	3	3	3	3	3	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: English | **Regulation: R20**
Year & Sem: I - I | **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Ranjith Kumar | **Course Code: C104**

Course Outcomes:

At the end of the course student will be able to	
C104.1	Generate ideas and create effective sentence structures in spoken and written forms.
C104.2	Comprehend passages and texts critically and respond appropriately.
C104.3	Select specific approaches to study and retain information.
C104.4	Interpret technical content using theoretical and practical components of English language.
C104.5	Communicate effectively in formal and informal contexts.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C104.1	3	3	-
C104.2	3	3	-
C104.3	3	-	-
C104.4	3	-	-
C104.5	3	3	-
Average	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Engineering Workshop | **Regulation: R20**
Year & Sem: I - I | **Branch: CSE (AI&ML)**
Course Coordinator Name: D.Sravani | **Course Code: C105**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C105.1	Create the different patterns with desired shape and size by using wood.
C105.2	Align and assemble different components to create a product by fitting operations.
C105.3	Fabricate the given material to desired product in a particular pattern by tin smithy.
C105.4	Explain the basic principles of electrical systems in day-to-day applications.
C105.5	Mould the component to desire pattern and shape by black smithy.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	-	3	-	-	-	-	3	-	3	3	3	-
C105.2	-	3	-	-	-	-	-	-	3	3	-	-
C105.3	-	-	-	-	-	-	3	-	3	3	3	-
C105.4	-	3	-	-	-	-	3	-	-	-	3	-
C105.5	-	3	-	-	-	-	3	-	3	3	3	-
Average	-	3	-	-	-	-	3	-	3	3	3	-

Note: 1-Low, 2-Moderate, 3-High

D. Sravani
Course Coordinator

Module Coordinator

HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Engineering Workshop
Year & Sem: I - I
Course Coordinator Name: D.Sravani

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C105

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C105.1	Create the different patterns with desired shape and size by using wood.
C105.2	Align and assemble different components to create a product by fitting operations.
C105.3	Fabricate the given material to desired product in a particular pattern by tin smithy.
C105.4	Explain the basic principles of electrical systems in day-to-day applications.
C105.5	Mould the component to desire pattern and shape by black smithy.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C105.1	3	3	-
C105.2	3	3	3
C105.3	-	3	3
C105.4	3	-	3
C105.5	-	3	-
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

D. Sravani

Course Coordinator

Module Coordinator

HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Engineering Chemistry Lab | **Regulation: R20**
Year & Sem: I - I | **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Saritha | **Course Code: C106**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C106.1	Determination of parameters like hardness and chloride content in water.
C106.2	Estimation of rate constant of a reaction from concentration time relationships.
C106.3	Determination of physical properties like surface tension and viscosity.
C106.4	Calculation of Rf values of some organic molecules by TLC technique.
C106.5	Estimation of amount by conductometry, potentiometry and colorimetry.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	-	3	-	-	-	-	3	-	3	-	-	-
C106.2	-	3	-	-	-	-	-	-	3	3	3	-
C106.3	-	3	-	-	-	-	3	-	3	3	-	-
C106.4	-		-	-	-	-	3	-	3	3	3	-
C106.5	-	3	-	-	-	-	3	-		3	3	-
Average	-	3	-	-	-	-	3	-	3	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Engineering Chemistry Lab
Year & Sem: I - I
Course Coordinator Name: K.Saritha

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C106

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C106.1	Determination of parameters like hardness and chloride content in water.
C106.2	Estimation of rate constant of a reaction from concentration time relationships.
C106.3	Determination of physical properties like surface tension and viscosity.
C106.4	Calculation of Rf values of some organic molecules by TLC technique.
C106.5	Estimation of amount by conductometry, potentiometry and colorimetry.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C106.1	3	3	3
C106.2	-	3	3
C106.3	3	3	-
C106.4	3	-	3
C106.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: English Language and Communication Skills Lab **Regulation: R20**
Year & Sem: I - I **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Ranjith Kumar **Course Code: C107**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C107.1	Imitate native accent through audio- visual experience and practice.
C107.2	Pronounce English sounds according to standard pronunciation (RP of England).
C107.3	Speak fluently and clearly.
C107.4	Neutralize their accent thus refining their speech.
C107.5	Participate in discussions and presentations effectively and confidently.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C107.1	-	-	-	-	-	-	3	-	3	3	3	-
C107.2	-	-	-	-	-	-	-	-	3	3	3	-
C107.3	-	3	-	-	-	-	3	-	-	3	3	-
C107.4	-	3	-	-	-	-	3	-	-	-	3	-
C107.5	-	3	-	-	-	-	3	-	3	3	3	-
Average	-	3	-	-	-	-	3	-	3	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: English Language and Communication Skills Lab **Regulation: R20**
Year & Sem: I – I **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Ranjith Kumar **Course Code: C107**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C107.1	Imitate native accent through audio- visual experience and practice.
C107.2	Pronounce English sounds according to standard pronunciation (RP of England).
C107.3	Speak fluently and clearly.
C107.4	Neutralize their accent thus refining their speech.
C107.5	Participate in discussions and presentations effectively and confidently.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C107.1	3	3	-
C107.2	3	3	-
C107.3	-	3	-
C107.4	3	-	-
C107.5	-	3	-
Average	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Programming For Problem Solving Lab **Regulation: R20**
Year & Sem: I - I **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Rajinikanth **Course Code: C108**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C108.1	Formulate the algorithms for simple problems
C108.2	Translate given algorithms to a working and correct program
C108.3	Correct syntax errors as reported bythe compilers
C108.4	Identify and correct logical errors encountered during execution
C108.5	Represent and manipulate data with arrays, strings and structures

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108.1	-	3	-	-	-	-	3	-	3	-	3	-
C108.2	-	3	-	-	-	-	-	-	3	3	3	-
C108.3	-	-	-	-	-	-	3	-	3	3	3	-
C108.4	-	3	-	-	-	-	3	-	-	3	3	-
C108.5	-	3	-	-	-	-	3	-	3	3	-	-
Average	-	3	-	-	-	-	3	-	3	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Programming For Problem Solving Lab **Regulation: R20**
Year & Sem: I - I **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Rajinikanth **Course Code: C108**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C108.1	Formulate the algorithms for simple problems
C108.2	Translate given algorithms to a working and correct program
C108.3	Correct syntax errors as reported by the compilers
C108.4	Identify and correct logical errors encountered during execution
C108.5	Represent and manipulate data with arrays, strings and structures

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C108.1	3	3	-
C108.2	-	3	-
C108.3	3	3	-
C108.4	3	-	-
C108.5	3	3	-
Average	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Ordinary Differential Equations and Vector Calculus **Regulation: R20**
Year & Sem: I - II **Branch: CSE (AI&ML)**
Course Coordinator Name: Vasumathi **Course Code: C121**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C109.1	Identify whether the given differential equation of first order is exact or not.
C109.2	Solve higher order differential equation and apply the concept of differential equation to real World problems.
C109.3	Evaluate the multiple integrals and apply the concept to find area and volumes of revolution of curves.
C109.4	Evaluate Gradient, Divergence and Curl of vector differential operator.
C109.5	Evaluate the line, surface and volume integrals and converting them from one to another.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C109.1	3	3	-	-	-	-	-	-	-	-	-	-
C109.2	-	-	-	-	3	-	-	-	-	-	-	-
C109.3	-	-	-	3	-	-	-	-	-	-	-	-
C109.4	-	-	3	-	-	3	3	-	-	-	-	-
C109.5	3	-	-	-	3	-	-	-	-	-	-	-
Average	3	3	3	3	3	3	3	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Ordinary Differential Equations and Vector Calculus **Regulation: R20**
Year & Sem: I - II **Branch: CSE (AI&ML)**
Course Coordinator Name: Vasumathi **Course Code: C109**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C109.1	Identify whether the given differential equation of first order is exact or not.
C109.2	Solve higher order differential equation and apply the concept of differential equation to real World problems.
C109.3	Evaluate the multiple integrals and apply the concept to find area and volumes of revolution of curves.
C109.4	Evaluate Gradient, Divergence and Curl of vector differential operator.
C109.5	Evaluate the line, surface and volume integrals and converting them from one to another.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C109.1	-	3	-
C109.2	-	3	3
C109.3	-	-	3
C109.4	-	-	3
C109.5	-	3	3
Average	-	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Applied Physics | **Regulation: R20**

Year & Sem: I – II | **Branch: CSE (AI&ML)**

Course Coordinator Name: M.Naresh Kumar | **Course Code: C122**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C110.1	The knowledge of fundamentals of Semiconductor physics, will enable the students to apply to various systems like pn junction diodes, transistors, communication and so on.
C110.2	The students can gain knowledge on the optical phenomena like Interference and diffraction.
C110.3	LASER explains the basic mechanisms involved in the interaction between the laser medium and the light source. Students would be able to learn Optical fibre principle and its applications as new materials for various engineering applications.
C110.4	The course also helps the students to be exposed to the magnetic materials and dielectric materials.
C110.5	Magnetic, dielectric behaviour of various materials are exposed to students to apply in industry and engineering.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C110.1	3	3	-	-	-	-	-	-	-	-	-	-
C110.2	3	3	3	-	-	-	-	-	-	-	-	-
C110.3	3	-	-	-	3	-	-	-	-	-	-	-
C110.4	3	-	-	-	3	-	-	-	-	-	-	-
C110.5	3	-	-	3	3	-	-	-	-	-	-	-
Average	3	3	3	3	3	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Applied Physics | **Regulation: R20**
Year & Sem: I - II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Naresh Kumar | **Course Code: C110**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C110.1	The knowledge of fundamentals of Semiconductor physics, will enable the students to apply to various systems like pn junction diodes, transistors, communication and so on.
C110.2	The students can gain knowledge on the optical phenomena like Interference and diffraction.
C110.3	LASER explains the basic mechanisms involved in the interaction between the laser medium and the light source. Students would be able to learn Optical fibre principle and its applications as new materials for various engineering applications.
C110.4	The course also helps the students to be exposed to the magnetic materials and dielectric materials.
C110.5	Magnetic, dielectric behaviour of various materials are exposed to students to apply in industry and engineering.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C110.1	3	3	-
C110.2	3	3	-
C110.3	-	3	3
C110.4	3	-	3
C110.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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CO-PO Mapping

Course Name: Basic Electrical & Electronics Engineering **Regulation: R20**
Year & Sem: I- II **Branch: CSE (AI&ML)**
Course Coordinator Name: J.Ratna Babu **Course Code: C111**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C111.1	To analyze and solve the basic Electrical circuits using different network reduction techniques.
C111.2	To understand the components of low Voltage Electrical Installations.
C111.3	To study the working principles of Electrical Machines.
C111.4	To identify and characterize diodes and their applications.
C111.5	To identify and characterize of transistors and their applications.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111.1	3	3	-	-	-	-	-	-	-	-	-	-
C111.2	-	3	3	-	-	-	-	-	-	-	-	-
C111.3	-	-	3	3	-	-	-	-	-	-	-	-
C111.4	-	-	-	-	3	-	-	-	-	-	-	-
C111.5	-	-	-	3	-	-	-	-	-	-	-	-
Average	3	3	3	3	3	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Basic Electrical & Electronics Engineering **Regulation: R20**
Year & Sem: I- II **Branch: CSE (AI&ML)**
Course Coordinator Name: J.Ratna Babu **Course Code: C111**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C111.1	To analyze and solve the basic Electrical circuits using different network reduction techniques.
C111.2	To understand the components of low Voltage Electrical Installations.
C111.3	To study the working principles of Electrical Machines.
C111.4	To identify and characterize diodes and their applications.
C111.5	To identify and characterize of transistors and their applications.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C111.1	3	3	-
C111.2	3	3	-
C111.3	-	-	-
C111.4	3	3	-
C111.5	3	3	-
Average	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

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CO-PO Mapping

Course Name: Engineering Graphics | **Regulation: R20**
Year & Sem: I - II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Gowtham | **Course Code: C112**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C112.1	Understand the conventions and the methods of drawing engineering curves and scales.
C112.2	Understand and draw the projections of points, lines and planes in different types of projections.
C112.3	Understand and draw projections of solids and sectional views of solid (prisms),Auxiliary views.
C112.4	Understand and sketch the development of surfaces to Right Regular Solids-prism, intersection of Solids.
C112.5	Prepare 2D & 3D drawings of solids and their transformations .isometric views of lines, plane figures and conversion of Isometric views to Ortho graphic views, Introduction of CAD software.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112.1	3	3	-	-	-	-	-	-	-	-	-	-
C112.2	3	3	3	-	-	-	-	-	-	-	-	-
C112.3	3	3	3	-	-	-	-	-	-	-	-	-
C112.4	3	3	3	-	-	-	-	-	-	-	-	-
C112.5	3	3	3	-	-	-	-	-	-	-	-	-
Average	3	3	3	-	-	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Engineering Graphics | **Regulation: R20**
Year & Sem: I - II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Gowtham | **Course Code: C112**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C112.1	Understand the conventions and the methods of drawing engineering curves and scales.
C112.2	Understand and draw the projections of points, lines and planes in different types of projections.
C112.3	Understand and draw projections of solids and sectional views of solid (prisms),Auxiliary views.
C112.4	Understand and sketch the development of surfaces to Right Regular Solids-prism, intersection of Solids.
C112.5	Prepare 2D & 3D drawings of solids and their transformations .isometric views of lines, plane figures and conversion of Isometric views to Ortho graphic views, Introduction of CAD software.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C112.1	3	3	3
C112.2	3	3	3
C112.3	-	3	3
C112.4	3	-	3
C112.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Cordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Applied Physics Lab | **Regulation: R20**
Year & Sem: I-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Naresh Kumar | **Course Code: C113**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C113.1	Apply the various procedures and techniques for the experiments.
C113.2	Use the different measuring devices and meters to record the data with precision.
C113.3	Apply the mathematical concepts/equations to obtain quantitative results.
C113.4	Develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results.
C113.5	To develop intellectual communication skills and discuss the basic principles of scientific concepts in a group.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113.1	3	-	-	-	3	3	3	-	-	-	-	-
C113.2	3	-	3	-	3	-	3	-	-	-	-	-
C113.3	3	-	-	3	-	3	3	-	-	-	-	-
C113.4	3	-	3	3	3	-	-	-	-	-	-	-
C113.5	3	-	-	-	3	3	-	-	-	-	-	-
Average	3	-	3	3	3	3	3	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Applied Physics Lab | **Regulation: R20**
Year & Sem: I-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Naresh Kumar | **Course Code: C113**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C113.1	Apply the various procedures and techniques for the experiments.
C113.2	Use the different measuring devices and meters to record the data with precision.
C113.3	Apply the mathematical concepts/equations to obtain quantitative results.
C113.4	Develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results.
C113.5	To develop intellectual communication skills and discuss the basic principles of scientific concepts in a group.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C113.1	3	3	-
C113.2	3	-	-
C113.3	3	3	-
C113.4	-	3	-
C113.5	3	3	-
Average	3	3	-

Note: 1-Low, 2-Moderate, 3-High

Course Cordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Basic Electrical & Electronics Engineering Lab | **Regulation: R20**

Year & Sem: I-II | **Branch: CSE (AI&ML)**

Course Coordinator Name: J.Ratna Babu | **Course Code: C114**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C114.1	Exploring different engineering technologies and their applications.
C114.2	Student should be able to understand IT Networking, Protocols and Computations.
C114.3	Understanding the principle of IOT and its architecture.
C114.4	Knowledge towards Assembling and testing of robots.
C114.5	Understanding functionality of 3D printers and their application.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114.1	3	3	-	-	-	-	-	-	-	-	-	3
C114.2	3	3	-	-	-	-	-	-	-	-	-	3
C114.3	3	3	-	-	-	-	-	-	-	-	-	3
C114.4	3	2	-	-	-	-	-	-	-	-	-	3
C114.5	3	3	-	-	-	-	-	-	-	-	-	3
Average	3	2.8	-	-	-	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Basic Electrical & Electronics Engineering Lab
Year & Sem: I-II
Course Coordinator Name: J.Ratna Babu

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C114

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C114.1	Exploring different engineering technologies and their applications.
C114.2	Student should be able to understand IT Networking, Protocols and Computations.
C114.3	Understanding the principle of IOT and its architecture.
C114.4	Knowledge towards Assembling and testing of robots.
C114.5	Understanding functionality of 3D printers and their application.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C114.1	3	3	3
C114.2	3	3	3
C114.3	-	3	2
C114.4	3	-	2
C114.5	3	-	3
Average	3	3	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Cordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Basic Elements of Engineering Technology | **Regulation: R20**
Year & Sem: I-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Sravanthi | **Course Code: C115**

Basic Electrical & Electronics Engineering Lab
Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C115.1	Able to solve the different networks using the concept of circuit laws.
C115.2	Able to characterize the performance of DC Motors and single phase transformer.
C115.3	Able to characterize the performance of three phase induction motors and alternators.
C115.4	Able to understand the characteristics of different electronic devices such as diodes and transistors.
C115.5	Able to understand the half wave and full wave rectifiers with and without filters.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115.1	3	3	-	-	3	3	3	-	-	-	-	-
C115.2	3	3	-	-	-	3	3	-	-	-	-	-
C115.3	3	3	-	-	3	-	3	-	-	-	-	-
C115.4	3	2	-	-	-	3	3	-	-	-	-	-
C115.5	3	3	-	-	-	-	-	-	-	-	-	-
Average	3	2.8	-	-	3	3	3	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | Module Coordinator | HoD CSE (AI&ML)

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Basic Elements of Engineering Technology | **Regulation: R20**
Year & Sem: I-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Sravanthi | **Course Code: C115**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C115.1	Able to solve the different networks using the concept of circuit laws.
C115.2	Able to characterize the performance of DC Motors and single phase transformer.
C115.3	Able to characterize the performance of three phase induction motors and alternators.
C115.4	Able to understand the characteristics of different electronic devices such as diodes and transistors.
C115.5	Able to understand the half wave and full wave rectifiers with and without filters.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C115.1	3	3	3
C115.2	3	3	3
C115.3	2	3	2
C115.4	3	2	2
C115.5	3	3	3
Average	2.8	2.8	2.6

Note: 1-Low, 2-Moderate, 3-High

Sravanthi
Course Coordinator

Sravanthi
Module Coordinator

HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Environmental Science **Regulation: R20**
Year & Sem: I-II **Branch: CSE(AI&ML)**
Course Coordinator Name: K.Sowmya Kiran **Course Code: C116**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C116.1	A student will be able to understand the basics of biotic and abiotic things present in the environment and their effects on environment.
C116.2	A student will be able to understand the basics of natural resources and impacts of things present in the environment and their effects.
C116.3	A student will be able to understand the varieties of life forms and conservation techniques.
C116.4	A student will be able to understand the effects of technological, scientific development on environment.
C116.5	A student will be able to assess the impacts on environment and strategic management of environment as stipulated by the local legislative rules, regulations and concepts of sustainable growth related to human life.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116.1	3	-	-	3	3	-	-	-	-	-	-	-
C116.2	3	-	-	3	3	-	-	-	-	-	-	-
C116.3	3	-	-	3	3	-	-	-	-	-	-	-
C116.4	3	-	-	3	3	-	-	-	-	-	-	-
C116.5	3	-	-	3	3	-	-	-	-	-	-	-
Average	3	-	-	3	3	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Design &Analysis Algorithms | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr. K Mahesh | **Course Code: C201**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C201.1	Compare and contrast the algorithms in terms of space and time.
C201.2	Design the algorithm using divide and conquer and greedy approach.
C201.3	Apply the Dynamic programming strategy to problems.
C201.4	Describe Back tracking techniques, branch and bound methods.
C201.5	Design the algorithm using non deterministic approaches.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	3	2	1	1	1	-	-	-	-	-	-	3
C201.2	3	2	1	1	1	-	-	-	-	-	-	3
C201.3	3	3	1	1	1	-	-	-	-	-	-	2
C201.4	3	2	2	1	1	-	-	-	-	-	-	2
C201.5	3	3	2	2	1	-	-	-	-	-	-	3
Average	3	2.4	1.4	1.2	1	-	-	-	-	-	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Design &Analysis Algorithms | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr. K Mahesh | **Course Code: C201**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C201.1	Compare and contrast the algorithms in terms of space and time.
C201.2	Design the algorithm using divide and conquer and greedy approach.
C201.3	Apply the Dynamic programming strategy to problems.
C201.4	Describe Back tracking techniques, branch and bound methods.
C201.5	Design the algorithm using non deterministic approaches.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C201.1	1	2	3
C201.2	2	2	3
C201.3	2	3	1
C201.4	2	1	1
C201.5	1	2	2
Average	1.6	2	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Data Structures using C | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C202**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C202.1	Implement fundamental data structures such as stacks, queues and linked lists
C202.2	Analyze and apply hashing techniques and dictionary data structures for different data access
C202.3	Analyze and Implement various tree data structures like AVL and splay trees for search operations
C202.4	Apply and evaluate different sorting algorithms and Graph traversal techniques.
C202.5	Design and Implement to efficient pattern matching algorithms and tree based data structure for text processing

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	2	2	1	2	-	-	-	-	-	-	3
C202.2	3	2	2	2	2	-	-	-	-	-	-	3
C202.3	3	3	2	3	2	-	-	-	-	-	-	3
C202.4	3	3	2	3	2	-	-	-	-	-	-	3
C202.5	3	3	3	3	2	-	-	-	-	-	-	3
Average	3	2.6	2.2	2.4	2	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Data Structures using C | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C202**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C202.1	Implement fundamental data structures such as stacks, queues and linked lists
C202.2	Analyze and apply hashing techniques and dictionary data structures for different data access
C202.3	Analyze and Implement various tree data structures like AVL and splay trees for search operations
C202.4	Apply and evaluate different sorting algorithms and Graph traversal techniques.
C202.5	Design and Implement to efficient pattern matching algorithms and tree based data structure for text processing

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C202.1	2	2	-
C202.2	2	3	-
C202.3	3	3	-
C202.4	3	3	-
C202.5	3	3	2
Average	2.6	2.8	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: OOPS Through Java
Year & Sem: II-I
Course Coordinator Name: S. Ramachandra Reddy

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C203

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C203.1	Solve real world problems using OOPS techniques.
C203.2	Apply the packages and interfaces, streams in programs.
C203.3	Make use of exceptions, multithreaded applications with synchronization.
C203.4	Develop the application using collection framework.
C203.5	Design GUI based applications using applets and swings.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	3	3	2	2	-	-	-	-	-	-	3
C203.2	3	2	3	2	3	2	1	-	-	-	-	3
C203.3	3	2	3	2	2	2	1	-	-	-	-	3
C203.4	3	3	3	1	3	-	-	-	3	2	-	3
C203.5	3	2	3	-	3	1	2	-	2	2	2	3
Average	3	2.4	3	1.7	2.6	1.6	1.3	-	2.5	2	2	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: OOPS Through Java | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: S. Ramachandra Reddy | **Course Code: C203**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C203.1	Solve real world problems using OOPS techniques.
C203.2	Apply the packages and interfaces, streams in programs.
C203.3	Make use of exceptions, multithreaded applications with synchronization.
C203.4	Develop the application using collection framework.
C203.5	Design GUI based applications using applets and swings.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C203.1	2	3	3
C203.2	2	2	3
C203.3	2	2	3
C203.4	2	2	3
C203.5	3	3	3
Average	2.2	2.4	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Theory of Computation | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: G.Parvathi Devi | **Course Code: C204**

Course Outcomes:

At the end of the course student will be able to	
C204.1	Analyze the concepts of abstract machines and their languages
C204.2	Design the finite state machines from regular expressions
C204.3	Find context free grammar for formal languages
C204.4	Apply normalization to the context free grammar
C204.5	Distinguish between decidability and un-decidability problems

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	3	2	2	3	1	-	-	-	-	-	3
C204.2	3	3	3	1	2	1	-	-	-	-	-	3
C204.3	3	3	3	1	2	1	-	-	-	-	-	3
C204.4	3	3	2	1	2	1	-	-	-	-	-	3
C204.5	3	3	2	2	1	1	-	-	-	-	-	3
Average	3	3	2.4	1.4	2	1	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Theory of Computation | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: G.Parvathi Devi | **Course Code: C204**

Course Outcomes:

At the end of the course student will be able to	
C204.1	Analyze the concepts of abstract machines and their languages
C204.2	Design the finite state machines from regular expressions
C204.3	Find context free grammar for formal languages
C204.4	Apply normalization to the context free grammar
C204.5	Distinguish between decidability and un-decidability problems

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C204.1	3	1	2
C204.2	2	3	3
C204.3	3	2	1
C204.4	3	2	1
C204.5	3	1	2
Average	2.8	1.8	1.8

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Programming with Python | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr S Rao chintalapudi | **Course Code: C205**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C205.1	Examine python syntax, semantics and flow control
C205.2	Analyze proficiency in handling strings and arrays
C205.3	Develop python programs using core data structures
C205.4	Conduct experiments on file handling, exception handling and modules
C205.5	Interpret the concepts of object oriented programming in python

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	3	3	3	2	2	-	-	-	-	-	-	3
C205.2	3	3	3	2	2	-	-	-	-	-	-	3
C205.3	3	3	3	2	2	-	-	-	-	-	-	3
C205.4	3	3	3	2	2	-	-	-	-	-	-	3
C205.5	3	3	3	2	2	-	-	-	-	-	-	3
Average	3	3	3	2	2	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Programming with Python | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr S Rao chintalapudi | **Course Code: C205**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C205.1	Examine python syntax, semantics and flow control
C205.2	Analyze proficiency in handling strings and arrays
C205.3	Develop python programs using core data structures
C205.4	Conduct experiments on file handling, exception handling and modules
C205.5	Interpret the concepts of object oriented programming in python

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C205.1	3	3	3
C205.2	3	3	3
C205.3	3	3	3
C205.4	3	3	3
C205.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Data Structure using C Lab | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C206**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C206.1	Construct C programs to implement and manage various linked list data structures
C206.2	Execute C programs to perform fundamental operations on stacks & queues by effectively utilizing arrays and pointers
C206.3	Illustrate the working principles of common sorting and searching methods through practical C program implementation
C206.4	Analyze and implement different traversal techniques in C program
C206.5	Design and Develop C programs to solve problems by applying various graph traversal techniques

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	3	2	3	-	3	-	-	-	-	-	-	3
C206.2	3	2	3	-	3	-	-	-	-	-	-	3
C206.3	3	3	2	2	3	-	-	-	-	-	-	3
C206.4	3	3	3	2	3	-	-	-	-	-	-	3
C206.5	3	3	3	2	3	-	-	-	-	-	-	3
Average	3	2.6	2.8	2	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Data Structure using C Lab | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C206**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C206.1	Construct C programs to implement and manage various linked list data structures
C206.2	Execute C programs to perform fundamental operations on stacks & queues by effectively utilizing arrays and pointers
C206.3	Illustrate the working principles of common sorting and searching methods through practical C program implementation
C206.4	Analyze and implement different traversal techniques in C program
C206.5	Design and Develop C programs to solve problems by applying various graph traversal techniques

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C206.1	-	3	1
C206.2	-	3	1
C206.3	2	2	1
C206.4	2	3	1
C206.5	2	3	1
Average	2	2.8	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Python Lab | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr S Rao chintalapudi | **Course Code: C207**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C207.1	Demonstrate the basic data types ,operators, strings in the data structures
C207.2	Perform operations on List, tuples, dictionaries in python
C207.3	Make use control statements , functions in python
C207.4	Analyze programs using modules, files and object oriented concepts
C207.5	Perform operations on text files

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	3	3	2	2	2	-	-	-	-	-	-	3
C207.2	3	3	3	2	2	-	-	-	-	-	-	3
C207.3	3	3	3	2	2	-	-	-	-	-	-	3
C207.4	3	3	3	2	2	-	-	-	-	-	-	3
C207.5	3	3	3	2	2	-	-	-	-	-	-	3
Average	3	3	2.8	2	2	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Python Lab | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr S Rao chintalapudi | **Course Code: C207**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C207.1	Demonstrate the basic data types ,operators, strings in the data structures
C207.2	Perform operations on List, tuples, dictionaries in python
C207.3	Make use control statements , functions in python
C207.4	Analyze programs using modules, files and object oriented concepts
C207.5	Perform operations on text files

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C207.1	3	2	2
C207.2	3	3	3
C207.3	3	3	3
C207.4	3	3	3
C207.5	3	3	3
Average	3	2.8	2.8

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: OOPS Through Java Lab | **Regulation: R20**

Year & Sem: | **Branch: CSE (AI&ML)**

Course Coordinator Name: S.Ramachandra Reddy | **Course Code: C208**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C208.1	Make use of Eclipse or Net Bean platform to create a project
C208.2	Design a java program to perform operations on List
C208.3	Demonstrate file operations using Java programs
C208.4	Analyze functions to handle mouse events, to simulate traffic signals
C208.5	Perform Multi threading concepts, GUI programs using swing controls in java

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	3	-	2	-	3	-	-	-	-	2	-	3
C208.2	3	2	3	-	2	-	-	-	-	1	-	3
C208.3	3	2	2	-	3	-	-	-	-	2	-	3
C208.4	3	3	2	2	2	-	-	-	-	1	-	3
C208.5	3	2	3	-	3	-	-	-	2	2	1	3
Average	3	2.2	2.4	2	2.6	-	-	-	2	1.6	1	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: OOPS Through Java Lab | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: S.Ramachandra Reddy | **Course Code: C208**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C208.1	Make use of Eclipse or Net Bean platform to create a project
C208.2	Design a java program to perform operations on List
C208.3	Demonstrate file operations using Java programs
C208.4	Analyze functions to handle mouse events, to simulate traffic signals
C208.5	Perform Multi threading concepts, GUI programs using swing controls in java

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C208.1	2	2	2
C208.2	2	3	2
C208.3	2	2	2
C208.4	1	2	2
C208.5	2	3	3
Average	1.8	2.4	2.2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Constitution of India | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Ranjith Kumar Reddy | **Course Code: C209**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C209.1	Develop the emergence and evolution of Indian Constitution
C209.2	Elaborate the structure and composition of Indian Constitution
C209.3	Analyze federalism in the Indian context
C209.4	Adopt the Indian Political scenario a midst the emerging challenges
C209.5	Evaluate Indian foreign relations under cold war and post-cold war

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C209.1	-	-	-	-	-	1	-	3	-	2	-	-
C209.2	-	-	1	-	-	2	-	3	-	2	-	-
C209.3	-	-	1	-	-	2	-	3	-	1	-	-
C209.4	-	-	-	-	-	3	-	3	-	2	-	-
C209.5	-	-	2	2	-	3	-	3	-	2	-	-
Average	-	-	1.3	2	-	2.2	-	3	-	1.8	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Constitution of India | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Ranjith Kumar Reddy | **Course Code: C209**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C209.1	Develop the emergence and evolution of Indian Constitution
C209.2	Elaborate the structure and composition of Indian Constitution
C209.3	Analyze federalism in the Indian context
C209.4	Adopt the Indian Political scenario a midst the emerging challenges
C209.5	Evaluate Indian foreign relations under cold war and post-cold war

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C209.1	-	-	3
C209.2	-	2	3
C209.3	1	-	3
C209.4	-	2	3
C209.5	1	-	3
Average	1	2	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Database Management Systems | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: SK.Sharif | **Course Code: C210**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C210.1	Design conceptual schemas using ER diagrams.
C210.2	Construct normalized relational schemas from ER models using relational principles
C210.3	Apply SQL for defining, querying, and modifying relational databases.
C210.4	Analyze transaction management and concurrency control techniques.
C210.5	Evaluate file organization and indexing strategies for performance optimization.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C210.1	3	3	3	3	3	-	-	-	-	-	-	-
C210.2	3	3	3	3	3	-	-	-	-	-	-	-
C210.3	3	3	3	3	3	-	-	-	-	-	-	-
C210.4	3	3	3	3	3	-	-	-	-	-	-	-
C210.5	3	3	3	3	3	-	-	-	-	-	-	-
Average	3	3	3	3	3	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

S.C.V
Course Coordinator

Module Coordinator

HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Database Management Systems | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: SK. Sharif | **Course Code: C210**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C210.1	Design conceptual schemas using ER diagrams
C210.2	Construct normalized relational schemas from ER models using relational principles
C210.3	Apply SQL for defining, querying, and modifying relational databases
C210.4	Analyze transaction management and concurrency control techniques
C210.5	Evaluate file organization and indexing strategies for performance optimization

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C210.1	3	3	1
C210.2	3	3	1
C210.3	3	3	1
C210.4	3	3	1
C210.5	3	3	1
Average	3	3	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Analog and Digital Electronics | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: K. Prasanna Kumari | **Course Code: C211**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C211.1	Simulate the characteristics of UJT and Diode functions
C211.2	Analyze the input/output characteristics of FET in C configuration
C211.3	Excel the realization of Boolean expressions using universal gates
C211.4	Design and analyze synchronous and asynchronous using counter flip-flops
C211.5	Develop realization of logic gates using DTL, TTL, ECL, etc

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	3	2	-	-	-	-	2	-	-	3	3
C211.2	3	3	3	-	-	-	-	2	-	-	3	3
C211.3	3	2	2	-	-	-	-	2	-	-	3	2
C211.4	3	2	3	2	-	-	-	2	-	-	3	2
C211.5	3	2	3	2	-	-	-	2	-	-	3	2
Average	3	2.4	2.6	2	-	-	-	2	-	-	3	2.4

Note: 1-Low, 2-Moderate, 3-High

Prasanna

Course Coordinator

Prasanna

Module Coordinator

HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Analog and Digital Electronics | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: K. Prasanna Kumari | **Course Code: C211**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C211.1	Simulate the characteristics of UJT and Diode functions
C211.2	Analyze the input/output characteristics of FET in C configuration
C211.3	Excel the realization of Boolean expressions using universal gates
C211.4	Design and analyze synchronous and asynchronous using counter flip-flops
C211.5	Develop realization of logic gates using DTL, TTL, ECL, etc

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C211.1	3	3	1
C211.2	3	2	1
C211.3	3	3	1
C211.4	3	2	1
C211.5	3	2.4	1
Average	3	2.4	1

Note: 1-Low, 2-Moderate, 3-High

Praneep

Course Coordinator

Praneep

Module Coordinator

HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Computer Oriented Statistical Methods **Regulation: R20**
Year & Sem: II-II **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr. K. Bhagya Lakshmi **Course Code: C212**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C212.1	Discuss the theory of probability, Random variables and distributions
C212.2	Interpret test of Sampling techniques and Test of hypothesis
C212.3	Apply the test of hypothesis for samples
C212.4	Find roots of Algebraic and transcendental Equations
C212.5	Compute solutions for ordinary differential equations

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	3	3	3	2	2	1	1	1	1	-	3
C212.2	3	3	3	3	2	2	1	1	1	1	-	3
C212.3	3	3	3	3	2	2	1	1	1	1	-	3
C212.4	3	3	3	3	2	2	1	1	1	1	-	3
C212.5	3	3	3	3	2	2	1	1	1	1	-	3
Average	3	3	3	3	2	2	1	1	1	1	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Computer Oriented Statistical Methods **Regulation: R20**
Year & Sem: II-II **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr. K. Bhagya Lakshmi **Course Code: C212**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C212.1	Discuss the theory of probability, Random variables and distributions
C212.2	Interpret test of Sampling techniques and Test of hypothesis
C212.3	Apply the test of hypothesis for samples
C212.4	Find roots of Algebraic and transcendental Equations
C212.5	Compute solutions for ordinary differential equations

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C212.1	3	3	3
C212.2	3	3	3
C212.3	3	3	3
C212.4	3	3	2
C212.5	3	3	2
Average	3	3	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Cordinator **Module Coordinator** **HoD CSE(AI&ML)**

ESTD: 2009

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Operating systems | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C213**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C213.1	Understand the structures ,functions and services of modern operating systems including batch, time sharing and distributed systems
C213.2	Analyze and compare different CPU Scheduling algorithms and process handling techniques
C213.3	Demonstrate knowledge of deadlock , synchronization techniques and methods for concurrency control
C213.4	Apply memory management strategies such as paging, segmentation and virtual memory
C213.5	Understand the file system interface and perform system level operations using UNIX System calls

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	2	2	2	2	-	-	-	-	-	-	3
C213.2	3	3	3	3	2	-	-	-	-	-	-	3
C213.3	3	3	3	3	3	-	-	-	-	-	-	3
C213.4	3	3	3	3	3	-	-	-	-	-	-	3
C213.5	3	3	3	3	3	-	-	-	-	-	-	3
Average	3	2.8	2.8	2.8	2.6	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

ESTD: 2009

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Operating systems | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C213**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C213.1	Understand the structures ,functions and services of modern operating systems including batch, time sharing and distributed systems
C213.2	Analyze and compare different CPU Scheduling algorithms and process handling techniques
C213.3	Demonstrate knowledge of deadlock , synchronization techniques and methods for concurrency control
C213.4	Apply memory management strategies such as paging, segmentation and virtual memory
C213.5	Understand the file system interface and perform system level operations using UNIX System calls

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C213.1	2	2	1
C213.2	2	3	2
C213.3	2	3	2
C213.4	2	2	2
C213.5	2	3	3
Average	2	2.6	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Computer Organization | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr. G. Vinoda Reddy | **Course Code: C214**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C214.1	Distinguish computer Organization and Computer Architecture
C214.2	Introduce the basics of instruction sets and their functionality
C214.3	Evaluate different arithmetic operations
C214.4	Demonstrate the functional units of the computer
C214.5	Design a pipeline for consistent execution of instructions

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	1	3	3	3	-	-	2	2	2	-	3
C214.2	3	3	3	2	2	-	-	2	2	2	-	3
C214.3	3	3	3	2	2	-	-	2	2	2	-	3
C214.4	3	2	3	2	2	-	-	2	2	2	-	3
C214.5	3	2	3	2	2	-	-	2	2	2	-	3
Average	3	2.2	3	2.2	2.2	-	-	2	2	2	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Computer Organization
Year & Sem: II-II
Course Coordinator Name: Dr. G. Vinoda Reddy

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C214

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C214.1	Distinguish computer Organization and Computer Architecture
C214.2	Introduce the basics of instruction sets and their functionality
C214.3	Evaluate different arithmetic operations
C214.4	Demonstrate the functional units of the computer
C214.5	Design a pipeline for consistent execution of instructions

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C214.1	3	3	2
C214.2	3	3	2
C214.3	3	3	2
C214.4	3	3	2
C214.5	3	3	2
Average	3	3	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: OS Lab | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code: C215**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C215.1	Implement and Analyze basic CPU scheduling algorithms using C in a UNIX/LINUX environment
C215.2	Apply system calls for file manipulation and process control in UNIX/LINUX
C215.3	Design and Implement solutions for synchronization problems and deadlock avoidance using semaphores and bankers algorithms
C215.4	Demonstrate inter-process communication techniques using pipes, FIFOS, message queues and shared memory
C215.5	Implement memory management techniques like paging and segmentation in C

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	2	2	1	2	-	-	-	-	-	-	3
C215.2	3	2	2	1	3	-	-	-	-	-	-	3
C215.3	3	2	2	1	3	-	-	-	-	-	-	3
C215.4	3	3	2	2	2	-	-	-	-	-	-	3
C215.5	3	2	2	1	2	-	-	-	-	-	-	3
Average	3	2.2	2	1.2	2.4	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: OS Lab | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M. Ravindran | **Course Code: C215**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C215.1	Implement and Analyze basic CPU scheduling algorithms using C in a UNIX/LINUX environment
C215.2	Apply system calls for file manipulation and process control in UNIX/LINUX
C215.3	Design and Implement solutions for synchronization problems and deadlock avoidance using semaphores and bankers algorithms
C215.4	Demonstrate inter-process communication techniques using pipes, FIFOS, message queues and shared memory
C215.5	Implement memory management techniques like paging and segmentation in C

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C215.1	1	1	1
C215.2	1	1	1
C215.3	2	2	1
C215.4	2	2	1
C215.5	2	2	1
Average	1.6	1.6	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: DBMS Lab | **Regulation: CR20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: SK. Sharif | **Course Code: C216**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C216.1	Design ER diagrams and convert them into relational schemas
C216.2	Normalize database tables for better structure and efficiency
C216.3	Perform basic SQL operations using DDL and DML commands
C216.4	Write SQL queries with constraints, functions, and views
C216.5	Use triggers, procedures, and cursors for advanced SQL tasks

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	3	3	3	3	-	-	-	-	-	-	3
C216.2	3	3	3	3	3	-	-	-	-	-	-	3
C216.3	3	3	3	3	3	-	-	-	-	-	-	3
C216.4	3	3	3	3	3	-	-	-	-	-	-	3
C216.5	3	3	3	3	3	-	-	-	-	-	-	3
Average	3	3	3	3	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: DBMS Lab | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: SK. Sharif | **Course Code: C216**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C216.1	Design ER diagrams and convert them into relational schemas
C216.2	Normalize database tables for better structure and efficiency
C216.3	Perform basic SQL operations using DDL and DML commands
C216.4	Write SQL queries with constraints, functions, and views
C216.5	Use triggers, procedures, and cursors for advanced SQL tasks

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C216.1	3	3	1
C216.2	3	3	1
C216.3	3	3	1
C216.4	3	3	1
C216.5	3	3	1
Average	3	3	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Analog and Digital Electronics Lab **Regulation: R20**
Year & Sem: II-II **Branch: CSE (AI&ML)**
Course Coordinator Name: K. Prasanna Kumari **Course Code: C217**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C217.1	Simulate Boolean algebra and digital circuit functions
C217.2	Analyze combinational and Sequential circuits
C217.3	Excel Common source JFET Amplifiers
C217.4	Demonstrate the generation of clock using NAND/NOR gates
C217.5	Design and realization of Synchronous and Asynchronous counter using flip-flops

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	-	3	-	1	-	-	-	-	-	-	-	-
C217.2	-	2	-	1	-	-	-	-	-	-	-	-
C217.3	3	2	-	2	-	-	-	-	-	-	-	3
C217.4	2	-	-	1	-	-	-	-	-	-	-	2
C217.5	-	2	2	2	-	-	-	-	-	-	-	-
Average	2.5	2.2	2	1.4	-	-	-	-	-	-	-	2.5

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Analog and Digital Electronics Lab | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Prasanna Kumari | **Course Code: C217**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C217.1	Simulate Boolean algebra and digital circuit functions
C217.2	Analyze combinational and Sequential circuits
C217.3	Excel Common source JFET Amplifiers
C217.4	Demonstrate the generation of clock using NAND/NOR gates
C217.5	Design and realization of Synchronous and Asynchronous counter using flip-flops

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C217.1	3	2	-
C217.2	3	2	1
C217.3	3	2	-
C217.4	3	2	1
C217.5	3	2	-
Average	3	2	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Gender Sensitization Lab | **Regulation: R20**
Year & Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Shilpa Chandrika | **Course Code: C218**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C218.1	Contrast Men and women students and professionals.
C218.2	Interpret Gender and Biology.
C218.3	Measure Gender and Labour.
C218.4	Apply and respond to gender violence.
C218.5	Discuss about the gender co-existence.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	-	1	2	-	-	2	3	-	-	-	-	-
C218.2	-	1	2	-	-	2	3	-	1	-	-	-
C218.3	-	-	-	1	2	2	3	3	-	-	-	-
C218.4	-	1	2	-	-	2	3	-	2	-	-	-
C218.5	1	1	2	-	2	2	3	2	2	2	-	1
Average	1	1	1	1	2	2	3	2.5	1.6	2	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Gender Sensitization Lab | **Regulation: R20**
Year & Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: Shilpa Chandrika | **Course Code: C218**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C218.1	Contrast Men and women students and professionals.
C218.2	Interpret Gender and Biology.
C218.3	Measure Gender and Labour.
C218.4	Apply and respond to gender violence.
C218.5	Discuss about the gender co-existence.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C218.1	-	-	1
C218.2	-	3	-
C218.3	1	-	3
C218.4	1	2	2
C218.5	-	-	2
Average	1	2.5	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Data Mining | **Regulation: R20**
Year & Sem: III – I | **Branch: CSE (AIML)**
Course Coordinator Name: B.Swaroopa Rani | **Course Code: C301**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C301.1	List the types of data to be mined and primitives of the data mining system.
C301.2	Extract interesting patterns from large amounts of data.
C301.3	Discover the classification of data mining in various fields.
C301.4	Illustrate suitable data mining algorithms to clustering applications.
C301.5	Evaluate the accuracy of supervised and unsupervised models.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	3	3	3	3	3	-	-	-	-	-	-	3
C301.2	3	3	2	2	3	-	-	-	-	-	-	3
C301.3	3	3	3	3	3	-	-	-	-	-	-	3
C301.4	3	2	3	3	3	-	-	-	-	-	-	3
C301.5	3	3	3	3	3	-	-	-	-	-	-	3
Average	3	2.8	2.8	2.8	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Data Mining | **Regulation: R20**
Year & Sem: III – I | **Branch: CSE (AIML)**
Course Coordinator Name: B. Swaroopa Rani | **Course Code: C301**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C301.1	Describe the types of data to be mined and primitives of the data mining system.
C301.2	Extract interesting patterns from large amounts of data.
C301.3	Discover the classification of data mining in various fields.
C301.4	Illustrate suitable data mining algorithms to clustering applications.
C301.5	Evaluate the accuracy of supervised and unsupervised models.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C301.1	3	3	3
C301.2	3	3	3
C301.3	2	3	2
C301.4	3	2	2
C301.5	3	2	3
Average	2.8	2.6	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Computer Networks | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: V.Ravinder Naik | **Course Code: C302**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C302.1	Compute the knowledge of the basic computer network technology.
C302.2	Summarize the functionalities of each layer in the OSI and TCP/IP reference model.
C302.3	Implement sub netting and routing mechanisms
C302.4	Discuss the essential transport layer protocols.
C302.5	Compile the different protocols in Application layer.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	2	-	-	-	-	-	-	-	-	-	1
C302.2	3	2	-	-	1	-	-	-	-	-	-	1
C302.3	3	2	-	-	1	-	-	-	-	-	-	1
C302.4	3	2	-	-	1	-	-	-	-	-	-	1
C302.5	3	2	-	-	1	-	-	-	-	-	-	1
Average	3	2	-	-	1	-	-	-	-	-	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Computer Networks | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: V.Ravinder Naik | **Course Code: C302**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C302.1	Compute the knowledge of the basic computer network technology.
C302.2	Summarize the functionalities of each layer in the OSI and TCP/IP reference model.
C302.3	Implement sub netting and routing mechanisms
C302.4	Discuss the essential transport layer protocols.
C302.5	Compile the different protocols in Application layer.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C302.1	2	3	2
C302.2	1	2	2
C302.3	1	2	2
C302.4	1	2	2
C302.5	2	3	2
Average	1.4	2.4	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name:Web Technologies **Regulation: R20**
Year & Sem: III-1 **Branch: CSE(AIML)**
Course Coordinator Name: R Lavanya **Course Code: C303**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C303.1	Discuss server-side scripting with PHP language.
C303.2	Develop XML and how to parse and use XML Data with Java.
C303.3	Interpret Server-side programming with Java Servlets.
C303.4	Implement JSP pages using Cookies and Session tracking.
C303.5	Design client-side scripting, validation of forms and AJAX programming.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	3	2	-	-	-	-	-	-	-	-	-
C303.2	3	2	3	-	-	-	-	-	-	-	-	-
C303.3	3	2	3	-	-	-	-	-	-	-	-	-
C303.4	3	3	3	-	-	-	-	-	-	-	-	-
C303.5	3	2	3	-	-	-	-	-	-	-	-	-
Average	3	2.4	2.8	-	-	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoDCSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name::Web Technologies **Regulation: R20**
Year & Sem: III-1 **Branch: CSE(AIML)**
Course Coordinator Name: R Lavanya **Course Code: C303**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C303.1	Discuss server-side scripting with PHP language.
C303.2	Develop XML and how to parse and use XML Data with Java.
C303.3	Interpret Server-side programming with Java Servlets.
C303.4	Implement JSP pages using Cookies and Session tracking.
C303.5	Design client-side scripting, validation of forms and AJAX programming.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C303.1	-	-	-
C303.2	-	-	-
C303.3	-	-	-
C303.4	-	-	-
C303.5	-	-	-
Average	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Data Analytics | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: Dr. K . Mahesh | **Course Code: C304**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C304.1	Evaluate and Discuss various Data architecture and manage the data for analysis.
C304.2	Explore data analytics and the need of business modeling.
C304.3	Conduct and interpret Regression Analysis.
C304.4	Analyze and Compare supervised and unsupervised models.
C304.5	Apply standard Data visualization techniques.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	3	2	1	-	3	-	-	-	-	-	-	2
C304.2	3	3	1	-	2	-	-	-	-	-	-	1
C304.3	3	3	1	1	3	-	-	-	-	-	-	2
C304.4	3	2	1	2	3	-	-	-	-	-	-	2
C304.5	3	2	1	-	3	-	-	-	-	-	-	3
Average	3	2.4	1	1.5	2.8	-	-	-	-	-	-	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Data Analytics | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: Dr . K Mahesh | **Course Code: C304**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C304.1	Evaluate and Discuss various Data architecture and manage the data for analysis.
C304.2	Explore data analytics and the need of business modeling.
C304.3	Conduct and interpret Regression Analysis.
C304.4	Analyze and Compare supervised and unsupervised models.
C304.5	Apply standard Data visualization techniques.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C304.1	1	1	2
C304.2	2	1	3
C304.3	3	2	1
C304.4	3	2	2
C304.5	3	2	3
Average	2.4	1.6	2.2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name:Distributed Databases | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: G. Parvathi Devi | **Course Code: C305**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C305.1	Inspect the aspects of distributed database systems.
C305.2	Interpret query processing and optimization techniques.
C305.3	Summarize the transaction management process.
C305.4	Discuss about parallel databases and reliability
C305.5	Construct the design aspects of the object-oriented database systems.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	2	2	2	1	-	-	-	1	1	3
C305.2	2	3	3	1	2	1	-	-	-	2	1	2
C305.3	2	3	2	1	2	2	-	-	-	2	1	2
C305.4	3	2	2	2	3	2	-	-	-	1	2	3
C305.5	3	3	2	1	2	1	-	-	-	1	1	3
Average	2.6	2.6	2.2	1.4	2.2	1.4	-	-	-	1.4	1.2	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name:Distributed Databases | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: G. Parvathi Devi | **Course Code: C305**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C305.1	Inspect the aspects of distributed database systems.
C305.2	Interpret query processing and optimization techniques.
C305.3	Summarize the transaction management process.
C305.4	Discuss about parallel databases and reliability
C305.5	Construct the design aspects of the object-oriented database systems.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C305.1	3	2	2
C305.2	2	3	2
C305.3	2	3	2
C305.4	3	2	3
C305.5	3	2	3
Average	2.6	2.4	2.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: :Data Mining Lab | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: B Swaroopa Rani | **Course Code: C306**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C306.1	Install WEKA tool
C306.2	Apply classification algorithms as a component to the existing tools
C306.3	Implement clustering mining techniques for realistic data
C306.4	Develop Credit risk assessment
C306.5	Build Hospital Management systems

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	3	3	3	3	3	-	-	-	-	-	-	3
C306.2	3	3	2	2	3	-	-	-	-	-	-	3
C306.3	3	3	3	3	3	-	-	-	-	-	-	3
C306.4	3	2	3	3	3	-	-	-	-	-	-	3
C306.5	3	3	3	3	3	-	-	-	-	-	-	3
Average	3	2.8	2.8	2.8	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: :Data Mining Lab **Regulation: R20**
Year & Sem: III-1 **Branch: CSE(AIML)**
Course Coordinator Name: B Swaroopa Rani **Course Code: C306**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C306.1	Install WEKA tool
C306.2	Apply classification algorithms as a component to the existing tools
C306.3	Implement clustering mining techniques for realistic data
C306.4	Develop Credit risk assessment
C306.5	Build Hospital Management systems

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C306.1	3	3	3
C306.2	3	3	3
C306.3	2	3	2
C306.4	3	2	2
C306.5	3	2	3
Average	2.8	2.6	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Computer Networks and Web Technologies Lab **Regulation: R20**
Year & Sem: III-1 **Branch: CSE(AIML)**
Course Coordinator Name: V Ravinder Naik **Course Code: C307**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C307.1	Implement data link layer framing methods
C307.2	Compute CRC code for the polynomials
C307.3	Excel PHP concepts in HTML.
C307.4	Implement Routing and congestion issues in network design.
C307.5	Install Tomcat and web server to perform operation dynamic and static web pages

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	3	2	2	-	2	-	-	-	-	-	-	-
C307.2	3	2	2	1	2	-	-	-	-	-	-	-
C307.3	3	2	2	1	3	-	-	-	-	-	-	-
C307.4	3	3	3	2	2	-	-	-	-	-	-	-
C307.5	3	2	2	1	3	-	-	-	-	-	-	-
Average	3	2.2	2.2	1	2.4	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Computer Networks and Web Technologies Lab **Regulation: R20**
Year & Sem: III-1 **Branch: CSE(AIML)**
Course Coordinator Name: V Ravinder Naik **Course Code: C307**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C307.1	Implement data link layer framing methods
C307.2	Compute CRC code for the polynomials
C307.3	Excel PHP concepts in HTML.
C307.4	Implement Routing and congestion issues in network design.
C307.5	Install Tomcat and web server to perform operation dynamic and static web pages

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C307.1	1	3	1
C307.2	1	3	1
C307.3	3	2	3
C307.4	1	3	2
C307.5	2	2	3
Average	1.6	2.6	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: R Programming Lab | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: SK. Sharif | **Course Code: 308**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C308.1	Implement basic concepts of R programming
C308.2	Implement the concepts of R fundamentals.
C308.3	Apply descriptive statistics on different data sets.
C308.4	Make Use of R Graphics and R Script.
C308.5	Create Data types, Transformations and Relational Database Using SQL.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	3	2	3	3	3	-	-	-	-	-	-	-
C308.2	3	3	2	2	2	-	-	-	-	-	-	-
C308.3	3	2	3	2	2	-	-	-	-	-	-	-
C308.4	3	2	3	2	2	-	-	-	-	-	-	-
C308.5	3	2	3	2	2	-	-	-	-	-	-	-
Average	3	2.2	2.8	2.2	2.2	-	-	-	-	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: R Programming Lab
Year & Sem: III-1
Course Coordinator Name: SK. Sharif

Regulation: R20
Branch: CSE(AIML)
Course Code: 308

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C308.1	Implement basic concepts of R programming
C308.2	Implement the concepts of R fundamentals.
C308.3	Apply descriptive statistics on different data sets.
C308.4	Make Use of R Graphics and R Script.
C308.5	Create Data types, Transformations and Relational Database Using SQL.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C308.1	3	2	3
C308.2	3	3	2
C308.3	3	2	3
C308.4	3	3	3
C308.5	2	3	3
Average	2.8	2.6	2.8

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Intellectual Property Rights | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: B. Durga Bhavani | **Course Code: 309**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C309.1	Understand and Evaluate the fundamental concepts and types of Intellectual Property (IP)
C309.2	Identify different types of trademarks and related laws
C309.3	Examine Copyrights, Patents and their Laws
C309.4	Explain the laws and regulations of trade secrets and Unfair competition
C309.5	Apply IPR knowledge to real-life case studies and industries.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C309.1	3	2	-	-	1	2	3	3	-	-	-	2
C309.2	3	3	-	-	1	2	3	2	-	-	-	2
C309.3	2	3	2	-	1	2	3	2	-	-	-	2
C309.4	2	2	3	3	1	3	3	3	-	-	-	2
C309.5	3	3	3	2	2	3	3	3	-	-	-	3
Average	2.6	2.6	2.6	2.5	1.2	2.4	3	2.6	-	-	-	2.2

Note: 1-Low, 2-Moderate, 3-High

B. Durga

Course Coordinator

B. Durga

Module Coordinator

HoD CSE(AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Intellectual Property Rights | **Regulation: R20**
Year & Sem: III-1 | **Branch: CSE(AIML)**
Course Coordinator Name: B. Durga Bhavani | **Course Code: 309**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C309.1	Understand and Evaluate the fundamental concepts and types of Intellectual Property (IP)
C309.2	Identify different types of trademarks and related laws
C309.3	Examine Copyrights, Patents and their Laws
C309.4	Explain the laws and regulations of trade secrets and Unfair competition
C309.5	Apply IPR knowledge to real-life case studies and industries.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C309.1	3	2	3
C309.2	3	2	3
C309.3	3	2	3
C309.4	3	2	3
C309.5	3	2	3
Average	3	2	3

Note: 1-Low, 2-Moderate, 3-High

B. Durga

Course Coordinator

B. Durga

Module Coordinator

HoD CSE(AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Artificial Intelligence | **Regulation: R20**
Year & Sem: III-1I | **Branch: CSE(AIML)**
Course Coordinator Name: : B Prashanth | **Course Code: 310**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C310.1	Formulate and apply problem-solving techniques such as search strategies for AI agents
C310.2	Analyze Adversarial search , constraint satisfaction problems and propositional-logic-based reasoning.
C310.3	Apply first order logic and knowledge representation techniques to model intelligent behavior.
C310.4	Develop classical and real world AI planning solutions using algorithms and multi-agent planning.
C310.5	Implement probabilistic models and learning approaches for reasoning under uncertainity.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	3	3	2	2	2	-	-	-	-	-	-	-
C310.2	3	3	2	3	2	-	-	-	-	-	-	-
C310.3	3	2	2	2	3	-	-	-	-	-	-	-
C310.4	3	3	3	3	2	-	-	-	1	-	-	-
C310.5	3	2	3	3	3	-	-	-	-	-	-	2
Average	3	2.6	2.4	2.6	2.4	-	-	-	1	-	-	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Artificial Intelligence **Regulation: R20**
Year & Sem: III-II **Branch: CSE(AIML)**
Course Coordinator Name: B Prashanth **Course Code: 310**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C310.1	Formulate and apply problem-solving techniques such as search strategies for AI agents
C310.2	Analyze Adversarial search , constraint satisfaction problems and propositional-logic-based reasoning.
C310.3	Apply first order logic and knowledge representation techniques to model intelligent behavior.
C310.4	Develop classical and real world AI planning solutions using algorithms and multi-agent planning.
C310.5	Implement probabilistic models and learning approaches for reasoning under uncertainity.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C310.1	3	3	3
C310.2	3	2	3
C310.3	2	3	2
C310.4	3	2	2
C310.5	3	3	3
Average	2.8	2.6	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Compiler Design | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: G. Parvathi Devi | **Course Code: 311**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C311.1	Compute tokens and regular expressions for lexical analysis.
C311.2	Implement top-down and bottom-up parsers.
C311.3	Construct Intermediate code for Procedures.
C311.4	Optimize the Code generation.
C311.5	Analyze the foundation of Data-Flow.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3	-	-	2	-	-	-	-	-	-	-	-
C311.2	3	3	-	2	3	-	-	-	-	3	2	-
C311.3	3	-	-	-	3	-	-	-	-	1	-	-
C311.4	2	3	-	3	-	-	-	-	-	-	-	2
C311.5	2	3	-	3	-	-	-	-	-	3	-	2
Average	2.6	3	-	2	3	-	-	-	-	2.3	2	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Compiler Design | **Regulation: R20**
Year & Sem: III-1I | **Branch: CSE(AIML)**
Course Coordinator Name: G. Parvathi Devi | **Course Code: 311**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C311.1	Compute tokens and regular expressions for lexical analysis.
C311.2	Implement top-down and bottom-up parsers.
C311.3	Construct Intermediate code for Procedures.
C311.4	Optimize the Code generation.
C311.5	Analyze the foundation of Data-Flow.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C311.1	3	3	2
C311.2	3	3	3
C311.3	3	3	2
C311.4	3	3	3
C311.5	3	3	2
Average	3	3	2.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Software Engineering | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: U Saritha | **Course Code: 312**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C312.1	Ability to translate end-user requirements into the system.
C312.2	Ability to translate end-user requirements into the system.
C312.3	Ability to build the design of systematic models.
C312.4	Construct testing strategies and generate a report.
C312.5	Quantify the metrics for process and products.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	3	3	2	3	1	-	2	2	2	2	3
C312.2	3	2	2	2	3	1	-	2	3	3	1	3
C312.3	3	3	3	3	3	2	2	3	3	2	1	3
C312.4	3	3	3	3	3	-	-	3	1	3	1	3
C312.5	3	3	3	3	3	-	-	2	1	2	1	3
Average	3	2.8	2.8	2.6	3	1.3	2	2.4	2	2.4	1.2	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Software Engineering | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: U Saritha | **Course Code: 312**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C312.1	Ability to translate end-user requirements into the system.
C312.2	Ability to translate end-user requirements into the system.
C312.3	Ability to build the design of systematic models.
C312.4	Construct testing strategies and generate a report.
C312.5	Quantify the metrics for process and products.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C312.1	3	3	2
C312.2	2	2	1
C312.3	3	2	2
C312.4	3	2	2
C312.5	3	2	3
Average	2.8	2.2	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Software Testing Methodologies | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name B Swaroopa Rani | **Course Code: 313**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C313.1	Evaluate basic concepts of software testing, bugs, and Path testing with flow graphs
C313.2	Apply various testing techniques like Transaction flow, Data flow and Domain testing
C313.3	Illustrate Path, path products and logic-based testing methodologies using KV charts
C313.4	Design test cases using decision tables, state graphs, and transition testing
C313.5	Develop automated testing using the JMeter, Win Runner, selenium, soapUI, Catalon tools.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	2	-	1	2	-	-	-	-	-	-	2
C313.2	3	3	2	2	2	-	-	-	-	-	-	2
C313.3	3	2	2	2	2	-	-	-	-	-	-	3
C313.4	2	2	3	3	2	-	-	-	-	-	-	3
C313.5	3	3	3	3	2	-	-	-	-	-	-	3
Average	2.8	2.4	2.5	2.2	2	-	-	-	-	-	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Software Testing Methodologies **Regulation: R20**
Year & Sem: III-II **Branch: CSE(AIML)**
Course Coordinator Name: B Swaroopa Rani **Course Code: 313**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C313.1	Evaluate basic concepts of software testing, bugs, and Path testing with flow graphs
C313.2	Apply various testing techniques like Transaction flow, Data flow and Domain testing
C313.3	Illustrate Path, path products and logic-based testing methodologies using KV charts
C313.4	Design test cases using decision tables, state graphs, and transition testing
C313.5	Develop automated testing using the JMeter, Win Runner, selenium, soapUI, Catalon tools.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C313.1	2	2	3
C313.2	2	2	3
C313.3	3	3	3
C313.4	2	3	3
C313.5	2	3	3
Average	2.2	2.6	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Introduction to Data Science | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: Bushra Tarannum | **Course Code: 314**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C314.1	Apply Principles of Numpy to the analysis of data
C314.2	Apply Principles of Pandas to the analysis of data
C314.3	Make use of various file formats in loading and storage of data
C314.4	Identify and apply the need and importance of pre-processing techniques
C314.5	Show the results and present them in a pictorial format

CO-PO Mapping:

C0#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	3	3	2	1	3	-	-	-	-	-	-	3
C314.2	3	3	2	1	3	-	-	-	-	-	-	3
C314.3	3	3	2	1	3	-	-	-	-	-	-	3
C314.4	3	3	2	1	3	-	-	-	-	-	-	3
C314.5	3	3	2	1	3	-	-	-	-	-	-	3
Average	3	3	2	1	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Introduction to Data Science | **Regulation: R20**

Year & Sem: III-II Sem | **Branch: CSE(AIML)**

Course Coordinator Name: Bushra Tarannum | **Course Code: C314**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C314.1	Apply Principles of Numpy to the analysis of data
C314.2	Apply Principles of Pandas to the analysis of data
C314.3	Make use of various file formats in loading and storage of data
C314.4	Identify and apply the need and importance of pre-processing techniques
C314.5	Show the results and present them in a pictorial format

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C314.1	3	2	-
C314.2	3	2	-
C314.3	3	2	-
C314.4	3	2	-
C314.5	3	2	-
Average	3	2	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Artificial Intelligence Lab | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: B Prashanth | **Course Code: 315**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C315.1	Implement fundamental AI search algorithms using LISP/PROLOG
C315.2	Apply adversarial search techniques and game playing methods using LISP/PROLOG
C315.3	Solve constraint-based problem such as monkey-banana and 8-puzzle problem LISP/PROLOG
C315.4	Design and Develop an Expert System with forward chaining using JESS/PROLOG
C315.5	Build an Expert System with backward chaining using JESS/PROLOG

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	3	2	2	2	-	-	-	-	-	-	-
C315.2	3	3	2	3	2	-	-	-	-	-	-	-
C315.3	3	3	3	3	2	-	-	-	-	-	-	-
C315.4	3	2	3	2	3	-	-	-	1	-	-	-
C315.5	3	2	3	2	3	-	-	-	1	-	-	-
Average	3	2.6	2.6	2.4	2.4	-	-	-	1	-	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Artificial Intelligence Lab | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: B Prashanth | **Course Code: 315**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C315.1	Implement fundamental AI search algorithms using LISP/PROLOG
C315.2	Apply adversarial search techniques and game playing methods using LISP/PROLOG
C315.3	Solve constraint-based problem such as monkey-banana and 8-puzzle problem LISP/PROLOG
C315.4	Design and Develop an Expert System with forward chaining using JESS/PROLOG
C315.5	Build an Expert System with backward chaining using JESS/PROLOG

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C315.1	3	3	3
C315.2	3	3	2
C315.3	3	3	3
C315.4	3	3	3
C315.5	3	3	3
Average	3	3	2.8

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Advanced Communication Skills Lab | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: K Ranjith Kumar | **Course Code: C316**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C316.1	Interpret the vocabulary to improve the fluency in English.
C316.2	Illustrate the ideas to use of communication skills.
C316.3	Inspect gathering ideas and information.
C316.4	Engage in debates.
C316.5	Prepare students for placement.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	3	3	3	3	-	-	-	-	-	-	3
C316.2	3	2	3	3	3	-	-	-	-	-	-	3
C316.3	3	3	3	3	3	-	-	-	-	-	-	3
C316.4	3	3	3	3	3	-	-	-	-	-	-	2
C316.5	3	3	3	3	3	-	-	-	-	-	-	2
Average	3	2.8	3	3	3	-	-	-	-	-	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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CO-PSO Mapping

Course Name: Advanced Communication Skills Lab | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: K Ranjith Kumar | **Course Code: C316**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C316.1	Interpret the vocabulary to improve the fluency in English.
C316.2	Illustrate the ideas to use of communication skills.
C316.3	Inspect gathering ideas and information.
C316.4	Engage in debates.
C316.5	Prepare students for placement.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C316.1	3	3	3
C316.2	3	3	3
C316.3	3	3	3
C316.4	3	3	3
C316.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Software testing methodologies Lab | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: B Swaroopa Rani | **Course Code: 317**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C317.1	Demonstrate the best test strategies in accordance to the development model
C317.2	Develop GUI checkpoints for single and multiple objects.
C317.3	Create Bit map and Database checkpoints for default, custom, Run time check
C317.4	Apply data driven test and perform Batch testing
C317.5	Automate test cases using Manual testing tools for different windows applications

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	3	3	3	-	-	-	-	-	-	3
C317.2	3	2	3	3	3	-	-	-	-	-	-	3
C317.3	3	3	3	3	3	-	-	-	-	-	-	3
C317.4	3	3	3	3	3	-	-	-	-	-	-	2
C317.5	3	3	3	3	3	-	-	-	-	-	-	2
Average	3	2.8	3	3	3	-	-	-	-	-	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Software testing methodologies Lab | **Regulation: R20**
Year & Sem: III-II | **Branch: CSE(AIML)**
Course Coordinator Name: Bushra Tarannum | **Course Code: 317**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C317.1	Demonstrate the best test strategies in accordance to the development model.
C317.2	Develop GUI checkpoints for single and multiple objects.
C317.3	Create database checkpoints for default and custom checks.
C317.4	Apply data driven test trough Excel test.
C317.5	Analyze test cases for calculator in windows application.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C317.1	3	3	3
C317.2	3	3	3
C317.3	3	3	3
C317.4	3	3	3
C317.5	3	3	3
Average	3	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Business Economics And Financial Analysis **Regulation: R20**
Year & Sem: IV-I **Branch: CSE (AI&ML)**
Course Coordinator Name: D Kanaka Durga **Course Code: C401**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C401.1	Discuss the various Forms of Business and the impact of economic variables on the Business.
C401.2	Comprehend the demand and supply analysis.
C401.3	Explore the usage of marketing and pricing of a product.
C401.4	Maintain the financial accounts of a firm or company.
C401.5	Monitoring the accounts through ratios.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	-	-	-	-	-	-	-	-	1	3	1	3
C401.2	-	-	-	-	-	-	-	-	1	3	1	3
C401.3	-	-	-	-	-	-	-	1	1	3	1	3
C401.4	-	-	-	-	-	-	-	-	1	3	1	3
C401.5	-	-	-	1	-	-	-	1	1	3	1	3
Average	-	-	-	1	-	-	-	1	1	3	1	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Business Economics And Financial Analysis **Regulation: R20**
Year & Sem: IV-I **Branch: CSE (AI&ML)**
Course Coordinator Name: D Kanaka Durga **Course Code: C401**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C401.1	Discuss the various Forms of Business and the impact of economic variables on the Business.
C401.2	Comprehend the demand and supply analysis.
C401.3	Explore the usage of marketing and pricing of a product.
C401.4	Maintain the financial accounts of a firm or company.
C401.5	Monitoring the accounts through ratios.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C401.1	-	-	1
C401.2	-	-	1
C401.3	-	-	1
C401.4	-	-	1
C401.5	-	-	1
Average	-	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: **Machine Learning** | **Regulation: R20**
Year & Sem: **IV-I** | **Branch: CSE (AI&ML)**
Course Coordinator Name: **B Swaroopa Rani** | **Course Code: C402**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C402.1	Discuss the concept of computational intelligence.
C402.2	Describe the artificial neural networks and its usage.
C402.3	Implement basic machine learning algorithms.
C402.4	Demonstrate Genetic algorithms and Reinforcement learning.
C402.5	Perform Analytical learning.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402.1	3	3	2	2	2	-	-	-	-	-	-	1
C402.2	3	2	2	2	2	-	-	-	-	-	-	1
C402.3	3	3	3	3	2	-	-	-	-	-	-	1
C402.4	3	3	3	3	2	-	-	-	-	-	-	1
C402.5	3	3	2	2	2	-	-	-	-	-	-	1
Average	3	2.8	2.4	2.4	2	-	-	-	-	-	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | Module Coordinator | HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Machine Learning | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: B Swaroopa Rani | **Course Code: C402**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C402.1	Discuss the concept of computational intelligence.
C402.2	Describe the artificial neural networks and its usage.
C402.3	Implement basic machine learning algorithms.
C402.4	Demonstrate Genetic algorithms and Reinforcement learning.
C402.5	Perform Analytical learning.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C402.1	3	3	1
C402.2	3	3	1
C402.3	3	3	1
C402.4	3	3	1
C402.5	3	3	1
Average	3	3	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | Module Coordinator | HoD CSE (AI&ML)

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Cloud Computing | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: G Parvathi Devi | **Course Code: C403**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C403.1	Discuss cloud computing paradigms.
C403.2	Demonstrate cloud computing Fundamentals.
C403.3	Design cloud computing architecture
C403.4	Construct the cloud service models.
C403.5	Make use of cloud service providers.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	2	1	-	-	3	-	-	-	-	-	-	2
C403.2	2	2	1	1	2	1	-	-	-	-	-	1
C403.3	2	2	1	-	2	1	-	-	-	-	-	1
C403.4	2	2	-	-	2	1	-	-	-	-	-	1
C403.5	2	1	-	-	2	2	-	-	-	-	-	2
Average	2	1.6	1	1	2.2	1.2	-	-	-	-	-	1.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Cloud Computing | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: G Parvathi Devi | **Course Code: C403**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C403.1	Discuss cloud computing paradigms.
C403.2	Demonstrate cloud computing Fundamentals.
C403.3	Design cloud computing architecture
C403.4	Construct the cloud service models.
C403.5	Make use of cloud service providers.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C403.1	3	2	3
C403.2	2	2	3
C403.3	2	2	3
C403.4	2	2	3
C403.5	2	2	3
Average	2.2	2	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Deep Learning | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M Ravindran | **Course Code: C404**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C404.1	Understand the architecture and functioning of deep feed forward neural networks including learning mechanisms like back propagation and gradient based learning
C404.2	Apply regularization strategies and optimization constrains to improve deep learning model generalization and robustness
C404.3	Analyze and implement optimization techniques for training deep models including adaptive learning rates, meta algorithms and initialization strategies
C404.4	Design and implement convolution neural network (CNNs),understanding role of pooling, convolution and structural representation
C404.5	Evaluate and apply deep learning techniques in real-world applications such as computer vision, NLP, and speech recognition

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404.1	3	2	2	2	2	-	-	-	-	-	-	2
C404.2	3	3	3	3	3	-	-	-	-	-	-	2
C404.3	3	3	3	3	3	-	-	-	-	-	-	3
C404.4	3	3	3	3	3	-	-	-	-	-	-	3
C404.5	3	3	3	2	3	-	-	-	-	-	-	3
Average	3	2.8	2.8	2.6	2.8	-	-	-	-	-	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Deep Learning | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M Ravindran | **Course Code: C404**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C404.1	Understand the architecture and functioning of deep feed forward neural networks including learning mechanisms like back propagation and gradient based learning
C404.2	Apply regularization strategies and optimization constrains to improve deep learning model generalization and robustness
C404.3	Analyze and implement optimization techniques for training deep models including adaptive learning rates, meta algorithms and initialization strategies
C404.4	Design and implement convolution neural network (CNNs),understanding role of pooling, convolution and structural representation
C404.5	Evaluate and apply deep learning techniques in real-world applications such as computer vision, NLP, and speech recognition

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C404.1	3	2	1
C404.2	3	3	2
C404.3	3	3	2
C404.4	3	3	2
C404.5	3	3	3
Average	3	2.8	2

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Information Retrieval systems | **Regulation: R20**
Year & Sem: IV- I | **Branch: CSE (AI&ML)**
Course Coordinator Name: A Ramesh | **Course Code: C405**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C405.1	Evaluate IRS system capabilities
C405.2	Construct automatic Indexing and information Extraction
C405.3	Categorize Automatic and Statistical Indexing
C405.4	Compile Information Visualization Techniques
C405.5	Develop text searching algorithm for Multimedia Information Retrieval

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3	2	1	1	1	-	-	-	-	-	-	1
C405.2	3	3	2	2	1	-	-	-	-	-	-	1
C405.3	2	3	2	3	1	-	-	-	-	-	-	1
C405.4	2	3	3	3	1	-	-	-	-	-	-	1
C405.5	1	2	2	3	1	-	-	-	-	-	-	1
Average	2.2	2.6	2	2.4	1	-	-	-	-	-	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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CO-PSO Mapping

Course Name: Information Retrieval systems | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: A Ramesh | **Course Code: C405**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C405.1	Evaluate IRS system capabilities
C405.2	Construct automatic Indexing and information Extraction
C405.3	Categorize Automatic and Statistical Indexing
C405.4	Compile Information Visualization Techniques
C405.5	Develop text searching algorithm for Multimedia Information Retrieval

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C405.1	3	2	1
C405.2	3	3	1
C405.3	3	3	1
C405.4	3	3	1
C405.5	2	2	1
Average	2.8	2.6	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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CO-PO Mapping

Course Name: Machine Learning Lab | **Regulation: R20**
Year & Sem: IV –I | **Branch: CSE (AI&ML)**
Course Coordinator Name: B Swaroopa Rani | **Course Code: C406**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C406.1	Perform experiments in Machine Learning using real-world data.
C406.2	Extract the data from database using python.
C406.3	Implement K-nearest neighbors using Python.
C406.4	Demonstrate the significance of genetic algorithms.
C406.5	Experiment finite words classification system using Back Propagation.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406.1	3	3	3	3	3	-	-	-	-	-	-	3
C406.2	3	3	2	2	3	-	-	-	-	-	-	3
C406.3	3	3	3	3	3	-	-	-	-	-	-	3
C406.4	3	2	3	3	3	-	-	-	-	-	-	3
C406.5	3	3	3	3	3	-	-	-	-	-	-	3
Average	3	2.8	2.8	2.8	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Machine Learning Lab | **Regulation: R20**
Year & Sem: IV –I | **Branch: CSE (AI&ML)**
Course Coordinator Name: B Swaroopa Rani | **Course Code: C406**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C406.1	Perform experiments in Machine Learning using real-world data.
C406.2	Extract the data from database using python.
C406.3	Implement K-nearest neighbors using Python.
C406.4	Demonstrate the significance of genetic algorithms.
C406.5	Experiment finite words classification system using Back Propagation.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C406.1	3	3	3
C406.2	3	3	3
C406.3	2	3	2
C406.4	3	2	2
C406.5	3	3	2
Average	2.8	2.8	2.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Industry Oriented Mini Project | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: V Malsoru | **Course Code: C407**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C407.1	Identify technical and economically feasible problems of social relevance.
C407.2	Plan and build the project team with assigned responsibilities.
C407.3	Survey the relevant literature for getting exposed to related solutions.
C407.4	Develop adaptable and reusable solutions of minimal complexity by using modern tools.
C407.5	Analyze test solutions to trace against the user requirements.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C407.1	2	3	3
C407.2	2	3	3
C407.3	2	3	2
C407.4	2	2	2
C407.5	2	3	2
Average	2	2.8	2.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Industry Oriented Mini Project | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: V Malsoru | **Course Code: C407**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C407.1	Identify technical and economically feasible problems of social relevance.
C407.2	Plan and build the project team with assigned responsibilities.
C407.3	Survey the relevant literature for getting exposed to related solutions.
C407.4	Develop adaptable and reusable solutions of minimal complexity by using modern tools.
C407.5	Analyze test solutions to trace against the user requirements.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C407.1	2	3	3	3	3	2	-	-	2	2	3	3
C407.2	2	3	2	2	3	2	-	-	2	2	3	3
C407.3	2	3	3	3	3	2	-	-	2	2	3	3
C407.4	2	2	3	3	3	2	-	-	2	2	3	3
C407.5	2	3	3	3	3	2	-	-	2	2	3	3
Average	2	2.8	2.8	2.8	3	2	-	-	2	2	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Seminar | **Regulation: R20**
Year & Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: V malsoru | **Course Code: C408**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C408.1	Identify and explore recent trends in engineering and technology
C408.2	Analyze and summarize technical information from various sources
C408.3	Demonstrate effective communication and presentation skills
C408.4	Exhibit professionalism and ethical practices
C408.5	Engage in-depth and lifelong learning

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C408.1	2	-	-	-	2	-	-	-	-	-	-	3
C408.2	-	2	-	-	-	-	-	-	-	2	-	-
C408.3	-	-	-	-	-	-	-	-	-	3	-	2
C408.4	-	-	-	-	-	-	-	-	3	-	-	-
C408.5	-	-	-	-	-	-	-	-	-	2	-	3
Average	2	2	-	-	2	-	-	-	3	2.3	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Seminar
Year & Sem: IV-I
Course Coordinator Name: V Malsoru

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C408

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C408.1	Identify and explore recent trends in engineering and technology
C408.2	Analyze and summarize technical information from various sources
C408.3	Demonstrate effective communication and presentation skills
C408.4	Exhibit professionalism and ethical practices
C408.5	Engage in-depth and lifelong learning

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C408.1	3	3	3
C408.2	3	3	3
C408.3	2	3	2
C408.4	3	2	2
C408.5	3	3	2
Average	2.8	2.8	2.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Project Stage – I
Year & Sem: IV- I
Course Coordinator Name: V Malsoru

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C409

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C409.1	Survey the problem, formulation and solution of the selected project
C409.2	Analyze solutions for contemporary problems using modern tools..
C409.3	Demonstrate ethical and professional sustainability for the benefit of the society.
C409.4	Develop the engineering, finance and management principles.
C409.5	Implement and test solutions to trace against the user requirements

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C409.1	3	3	3	3	3	-	-	-	-	-	-	3
C409.2	3	3	2	2	3	-	-	-	-	-	-	3
C409.3	3	3	3	3	3	-	-	-	-	-	-	3
C409.4	3	2	3	3	3	-	-	-	-	-	-	3
C409.5	3	3	3	3	3	-	-	-	-	-	-	3
Average	3	2.8	2.8	2.8	3	-	-	-	-	-	-	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Project Stage – I
Year & Sem: IV- I
Course Coordinator Name: V Malsoru

Regulation: R20
Branch: CSE (AI&ML)
Course Code: C409

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C409.1	Survey the problem, formulation and solution of the selected project
C409.2	Analyze solutions for contemporary problems using modern tools.
C409.3	Demonstrate ethical and professional sustainability for the benefit of the society.
C409.4	Develop the engineering, finance and management principles.
C409.5	Implement and test solutions to trace against the user requirements

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C409.1	3	3	3
C409.2	3	3	3
C409.3	2	3	2
C409.4	3	2	2
C409.5	3	3	2
Average	2.8	2.8	2.4

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Organizational Behaviour | **Regulation: R20**

Year & Sem: IV-I | **Branch: CSE (AI&ML)**

Course Coordinator Name: Dr Mallika Rao | **Course Code: C410**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C410.1	Discuss conventional and organizational behaviour.
C410.2	Describe the Cognitive process.
C410.3	Make use of decision making at individual and team levels.
C410.4	Compare power and politics.
C410.5	Analyze the leading high performance.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410.1	-	-	-	-	-	-	-	-	-	3	-	-
C410.2	-	-	-	-	-	-	-	-	-	3	-	-
C410.3	-	-	-	-	-	-	-	-	-	3	-	-
C410.4	-	-	-	-	-	-	-	-	-	3	-	-
C410.5	-	-	-	-	-	-	-	-	-	3	-	-
Average	-	-	-	-	-	-	-	-	-	3	-	-

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Organizational Behaviour **Regulation: R20**
Year & Sem: IV-I **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr Mallika Rao **Course Code: C410**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C410.1	Discuss conventional and organizational behaviour.
C410.2	Describe the Cognitive process.
C410.3	Make use of decision making at individual and team levels.
C410.4	Compare power and politics.
C410.5	Analyze the leading high performance.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C410.1	-	-	3
C410.2	-	-	3
C410.3	-	-	3
C410.4	-	-	2
C410.5	-	-	2
Average	-	-	2.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Cyber Forensics
Year & Sem: IV-II
Course Coordinator Name: R Lavanya

Regulation: R20
Branch: CSE (AIML)
Course Code: C411

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C411.1	Describe the crime types and incident response procedures.
C411.2	Experiment the usage of computers in forensic laboratories.
C411.3	Explore the data analysis and visualization techniques.
C411.4	Make use of various forensic tools for a wide variety of investigations.
C411.5	Design principles of data management methods.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3	1	1	2	1	-	2	3	2	1	3	3
C411.2	2	1	1	2	1	-	2	3	2	-	3	3
C411.3	2	1	1	1	1	-	2	3	2	-	3	3
C411.4	2	1	1	1	3	-	2	3	2	-	3	3
C411.5	2	1	1	1	3	-	2	3	2	-	3	3
Average	2.2	1	1	1.4	1.8	-	2	3	2	1	3	3

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Cyber Forensics
Year & Sem: IV-II
Course Coordinator Name: R Lavanya

Regulation: R20
Branch: CSE (AIML)
Course Code: C411

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C411.1	Describe the crime types and incident response procedures.
C411.2	Experiment the usage of computers in forensic laboratories.
C411.3	Explore the data analysis and visualization techniques.
C411.4	Make use of various forensic tools for a wide variety of investigations.
C411.5	Design principles of data management methods.

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C411.1	3	1	2
C411.2	3	2	1
C411.3	2	3	1
C411.4	3	3	2
C411.5	3	3	2
Average	2.8	2.4	1.6

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Scripting Languages | **Regulation: R20**
Year & Sem: IV-II | **Branch: CSE (AIML)**
Course Coordinator Name: A Ramesh | **Course Code: C412**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C412.1	Analyze the structure and execution of Ruby programs and Ruby TK
C412.2	Elaborate Embed Ruby Interpreter
C412.3	Acquire programming skills in scripting language
C412.4	Explain the object oriented concept of advanced PERL
C412.5	Justify the TCL structures and visualize TK

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3	2	2	1	3	-	-	-	-	-	-	1
C412.2	3	3	3	1	3	-	-	-	-	-	-	1
C412.3	3	2	2	1	3	-	-	-	-	-	-	1
C412.4	3	3	3	1	3	-	-	-	-	-	-	1
C412.5	3	3	3	1	3	-	-	-	-	-	-	1
Average	3	2.6	2.6	1	3	-	-	-	-	-	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Scripting Languages
Year & Sem: IV-II
Course Coordinator Name: A Ramesh

Regulation: R20
Branch: CSE (AIML)
Course Code: C412

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C412.1	Analyze the structure and execution of Ruby programs and Ruby TK
C412.2	Elaborate Embed Ruby Interpreter
C412.3	Acquire programming skills in scripting language
C412.4	Explain the object oriented concept of advanced PERL
C412.5	Justify the TCL structures and visualize TK

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C412.1	3	2	1
C412.2	3	3	1
C412.3	3	3	1
C412.4	3	1	1
C412.5	3	1	1
Average	3	2	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE(AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO Mapping

Course Name: Project Stage-II | **Regulation: R20**
Year & Sem: IV-II | **Branch: CSE (AIML)**
Course Coordinator Name: V Malsoru | **Course Code: C413**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C413.1	Identify technically and economically feasible problems of social relevance
C413.2	Plan and build the project team with assigned responsibilities
C413.3	Identify and survey the relevant literature for getting exposed to related solutions
C413.4	Analyze, design and develop adaptable and reusable solutions of minimal complexity by using modern tools
C413.5	Implement and test solutions to trace against the user requirements

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	3	3	3	3	1	-	-	-	-	-	-	1
C413.2	3	3	3	3	2	-	-	-	-	-	-	1
C413.3	3	3	3	3	1	-	-	-	-	-	-	1
C413.4	3	3	3	2	2	-	-	-	-	-	-	1
C413.5	3	3	3	2	2	-	-	-	-	-	-	1
Average	3	3	3	2.6	1.6	-	-	-	-	-	-	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator | **Module Coordinator** | **HoD CSE (AI&ML)**

Department of CSE [Artificial Intelligence & Machine Learning]

CO-PSO Mapping

Course Name: Project Stage-II | **Regulation: R20**
Year & Sem: IV-II | **Branch: CSE (AIML)**
Course Coordinator Name: V Malsoru | **Course Code: C413**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C413.1	Identify technically and economically feasible problems of social relevance
C413.2	Plan and build the project team with assigned responsibilities
C413.3	Identify and survey the relevant literature for getting exposed to related solutions
C413.4	Analyze, design and develop adaptable and reusable solutions of minimal complexity by using modern tools
C413.5	Implement and test solutions to trace against the user requirements

CO-PSO Mapping:

	PSO1	PSO2	PSO3
C413.1	3	2	1
C413.2	3	2	1
C413.3	3	2	1
C413.4	3	2	1
C413.5	3	2	1
Average	3	2	1

Note: 1-Low, 2-Moderate, 3-High

Course Coordinator **Module Coordinator** **HoD CSE (AI&ML)**