Department of CSE [Artificial Intelligence & Machine Learning]

Course Coordinators list for 2022-2026 (R22) Batch

S.No.	Course Code	Course Title	Course Coordinator
		I SEMESTER	
1	C101	Matrices and Calculus	Dr M.Swetha
2	C102	Applied Physics	M.Naresh Kumar
3	C103	Programming for Problem Solving	K Rajinikanth
4	C104	English for Skill Enhancement	K.Ranjith Kumar
5	C105	IT Workshop	D.Sravani
6	C106	Applied Physics Laboratory	M.Naresh Kumar
7	C107	Programming for Problem Solving Laboratory	K Rajinikanth
8	C108	English Language and Communication Skills Laboratory	K.Ranjith Kumar
9	C109	Basic Elements of Engineering and Technology	J.Ratna Babu
		II SEMESTER	
10	C110	Ordinary Differential Equations and Vector Calculus	M. K. Vasumathy
11	C111	Engineering Chemistry	K.Saritha
12	C112	Data Structures	K Rajinikanth
13	C113	Basic Electrical and Electronics Engineering	J.Ratna Babu
14	C114	Computer Aided Engineering Graphics	M.Gowtham
15	C115	Engineering Chemistry Laboratory	K.Saritha
16	C116	Data Structures Laboratory	K Rajinikanth
17	C117	Basic Electrical and Electronics Engineering Laboratory	J.Ratna Babu
		III SEMESTER	
18	C201	Discrete Mathematics	G.Aravind
19	C202	Software Engineering	U Saritha
20	C203	Programming with Python	Dr S Rao Chintalapudi
21	C204	Computer Organization and Architecture	G.Pavan
22	C205	Operating Systems	S.Kiran
23	C206	Python Lab	Dr S Rao Chintalapudi

Department of CSE [Artificial Intelligence & Machine Learning]

24	C207	Software Engineering Lab	U.Saritha
25	C208	Operating Systems Lab	S.kiran
26	C209	NodeJS/ReactJS/Django	M.Prashanth Desai/ K Madhu
IV SEMESTER			
27	C210	Automata Theory and Compiler Design	M.Ravindran
28	C211	Database Management Systems	G Pavan
29	C212	Mathematical and Statistical Foundations	Dr.K.Bhagya Lakshmi
30	C213	Introduction to Artificial Intelligence	Dr K Mahesh
31	C214	Object Oriented Programming through Java	K.Madhu
32	C215	Database Management Systems Lab	G Pavan
33	C216	Java Programming Lab	K.Madhu
34	C217	Prolog/ Lisp/Pyswip	S.Ramchandra Reddy
35	C218	Real-time Research Project/Field-Based Research Project	B.Prashanth
V SEMESTER			
36	C301	Design and Analysis of Algorithms	Dr.Md.Shareef
37	C302	Machine Learning	G.Parvathi Devi
38	C303	Computer Networks	V.Ravinder Naik
39	C304	Business Economics & Financial Analysis	Ch.Deepthi Reddy
40	C305	Introduction to Data Science	Dr.G.Vinoda Reddy
41	C306	Machine Learning Lab	G.Parvathi Devi
42	C307	Computer Networks Lab	V.Ravinder Naik
43	C308	UI design-Flutter	Dr. K. Mahesh
VI SEMESTER			
44	C309	Knowledge Representation and Reasoning	M.Ravindran
45	C310	Data Analytics	K. Bhargavi
46	C311	Natural Language Processing	K.Nagamani
47	C312	Software Testing Methodologies	B.Swaroopa Rani
48	C313	Fundamentals of Internet of Things	Bushra Tarannum
49	C314	Data Analytics Lab	K. Bhargavi
50	C315	Advanced English Communication Skill lab	Ruby Bhatia
51	C316	Natural Language Processing Lab	K.Nagamani

Department of CSE [Artificial Intelligence & Machine Learning]

52	C317	Industrial Oriented Mini Project/Internship/ Skill Development Course(DevOps)	SK. Sharif
		VII SEMESTER	
53	C401	Professional Practice, Law & Ethics	D. Laxmi
54	C402	Deep Learning	S Ramachandra Reddy
55	C403	Cloud Computing	B.Prashanth
56	C404	Generative AI	M.Balaji
57	C405	Electronic Sensors	Dr K.Mohana Lakshmi
58	C406	Deep Learning lab	S Ramachandra Reddy
59	C407	Cloud Computing lab	B.Prashanth
60	C408	Project Stage-I	G.Sravan Rao
		VIII SEMESTER	
61	C409	Web Security	M. Lalitha
62	C410	Robotic Process Automation	A Ramesh
63	C411	Data Visualization using Python	Bushra Tarannum
64	C412	Project Stage–II including Seminar	M.Balaji

Coordinator

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Department of CSE [Artificial Intelligence & Machine Learning]

Module Coordinator for 2022-2026 Batch

S.No	Course Code	Course Title	Module Name	Module Coordinator	Signature
1	C101	Matrices and Calculus	Basic Sciences & Humanities	Dr M. Rajender	
2	C110	Ordinary Differential Equations and Vector Calculus	Basic Sciences & Humanities	Dr M. Rajender	
3	C213	Mathematical and Statistical Foundations	Basic Sciences & Humanities	Dr M. Rajender	
4	C111	Engineering Chemistry	Basic Sciences & Humanities	Dr. T. Leena Vinolia	
5	C115	Engineering Chemistry Laboratory	Basic Sciences & Humanities	Dr. T. Leena Vinolia	
6	C104	English for Skill Enhancement	Basic Sciences & Humanities	K. Ranjith Kumar Reddy	
7	C108	English Language and Communication Skills Laboratory	Basic Sciences & Humanities	K. Ranjith Kumar Reddy	
8	C114	Computer Aided Engineering Graphics	Basic Sciences & Humanities	M. Gowtham	
9	C105	IT Workshop	Basic Sciences & Humanities	M. Gowtham	
10	C102	Applied Physics	Basic Sciences & Humanities	M. Naresh Kumar	
11	C106	Applied Physics Laboratory	Basic Sciences & Humanities	M. Naresh Kumar	
12	C109	Basic Elements of Engineering Technology	Basic Sciences & Humanities	M. Sravanthi	
13	C316	Advanced English Communication Skill lab	Basic Sciences & Humanities	G. Shilpa Chandrika	
14	C113	Basic Electrical & Electronics Engineering	Basic Electrical and Engineering	K.Prasanna Kumari	
15	C117	Basic Electrical &Electronics Engineering Laboratory	Basic Electrical and Engineering	K.Prasanna Kumari	
16	C314	Fundamentals Internet of Things	Basic Electrical and Engineering	K.Prasanna Kumari	
17	C405	Electronic Sensors	Basic Electrical and Engineering	K.Prasanna Kumari	
18	C103	Programming for problem Solving	Programming Languages	M.Ravindran	
19	C107	Programming for Problem Solving Laboratory	Programming Languages	M.Ravindran	
20	C203	Programming with Python	Programming	M.Ravindran	

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			Languages	
21	C206	Python Lab	Programming Languages	M.Ravindran
22	C209	NodeJS/ReactJS/Django	Programming Languages	M.Ravindran
23	C211	Data Base Management Systems	Programming Languages	M.Ravindran
24	C214	Object Oriented Programming through Java	Programming Languages	M.Ravindran
25	C215	Data Base Management Systems Lab	Programming Languages	M.Ravindran
26	C216	Java Programming Lab	Programming Languages	M.Ravindran
27	C217	Prolog/ Lisp/Pyswip	Programming Languages	M.Ravindran
28	C308	UI design-Flutter	Programming Languages	M.Ravindran
29	C410	Robotic Process Automation	Programming Languages	M.Ravindran
30	C411	Data Visualization using Python	Programming Languages	M.Ravindran
31	C112	Data Structures	Computer Science	Dr. G. Vinoda Reddy
32	C116	Data Structures Laboratory	Computer Science	Dr. G. Vinoda Reddy
33	C201	Discrete Mathematics	Computer Science	Dr. G. Vinoda Reddy
34	C202	Software Engineering	Computer Science	Dr. G. Vinoda Reddy
35	C204	Computer Organization and Architecture	Computer Science	Dr. G. Vinoda Reddy
36	C205	Operating Systems	Computer Science	Dr. G. Vinoda Reddy
37	C207	Software Engineering Lab	Computer Science	Dr. G. Vinoda Reddy
38	C208	Operating Systems Lab	Computer Science	Dr. G. Vinoda Reddy
39	C210	Automata Theory and Compiler Design	Computer Science	Dr. G. Vinoda Reddy
40	C301	Design & Analysis Algorithms	Computer Science	Dr. G. Vinoda Reddy
41	C303	Computer Networks	Computer Science	Dr. G. Vinoda Reddy
42	C307	Computer Networks Lab	Computer Science	Dr. G. Vinoda Reddy

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43	C309	Knowledge Representation and Reasoning	Computer Science	Dr. G. Vinoda Reddy	
44	C312	Software Testing Methodologies	Computer Science	Dr. G. Vinoda Reddy	
45	C409	Web Security	Computer Science	Dr. G. Vinoda Reddy	
46	C305	Introduction to Data Science	Data Science	Dr. K. Mahesh	
47	C310	Data Analytics	Data Science	Dr. K. Mahesh	
48	C314	Data Analytics Lab	Data Science	Dr. K. Mahesh	
49	C403	Cloud Computing	Data Science	Dr. K. Mahesh	
50	C407	Cloud Computing lab	Data Science	Dr. K. Mahesh	
51	C213	Introduction to Artificial Intelligence	Artificial Intelligence	Dr. S Rao Chintalapudi	
52	C302	Machine Learning	Artificial Intelligence	Dr. S Rao Chintalapudi	
53	C306	Machine Learning Lab	Artificial Intelligence	Dr. S Rao Chintalapudi	
54	C311	Natural Language Processing	Artificial Intelligence	Dr. S Rao Chintalapudi	
55	C317	Natural Language Processing Lab	Artificial Intelligence	Dr. S Rao Chintalapudi	
56	C402	Deep Learning	Artificial Intelligence	Dr. S Rao Chintalapudi	
57	C404	Generative AI	Artificial Intelligence	Dr. S Rao Chintalapudi	
58	C406	Deep Learning lab	Artificial Intelligence	Dr. S Rao Chintalapudi	
59	C304	Business Economics & Financial Analysis	Management	D.Kanaka Durga	
60	C401	Professional Practice, Law & Ethics	Management	D.Kanaka Durga	
61	C218	Real-time Research Project	Seminar & Project	Dr. V.Malsoru	
62	C317	Industry Oriented Mini Project	Seminar & Project	Dr. V.Malsoru	
63	C408	Project Stage-I	Seminar & Project	Dr. V.Malsoru	
64	C412	Project Stage-II including Seminar	Seminar & Project	Dr. V.Malsoru	

Coordinator

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Department of CSE [Artificial Intelligence & Machine Learning]

CO-PO-PSO MAPPING

Course Name: Discrete Mathematics
Year &Sem: I-II
Course Coordinator Name: G.Aravind

Regulation: R22
Branch: CSE (AI&ML)
Course Code: C201

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C201.1	Construct precise mathematical proofs.
C201.2	Use logic and set theory to formulate precise statements.
C201.3	Apply algebraic structures and Boolean algebra
C201.4	Solve combinatorial counting problems.
C201.5	Apply graph theory in solving computing problems.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	3	3	2	2	-	-	-	-	-	-	-	-
C201.2	3	3	2	2	-	-	-	-	-	-	-	-
C201.3	3	3	2	2	-	-	-	-	-	-	-	-
C201.4	3	3	2	2	2	-	-	-	-	-	-	-
C201.5	3	3	2	2	2	-	-	-	-	-	-	-
Average	**3.0**	**3.0**	**2.0**	**2.0**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

CO-PSO MAPPING:

	PSO1	PSO2	PSO3
C201.1	2	-	-
C201.2	2	-	-
C201.3	2	-	-
C201.4	2	-	-
C201.5	2	-	-
Average	**2.0**	**-**	**-**

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-PSO MAPPING

Course Name: Software Engineering | **Regulation: R22**
Year &Sem: I-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: U Saritha | **Course Code: C202**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C202.1	Apply software development life cycle principles and process models to structure software projects.
C202.2	Construct the software requirements specifications with relevant use-cases.
C202.3	Analyze the project management strategies and various components to build the architecture using suitable design strategies.
C202.4	Estimate the best coding standards and testing strategies to develop high quality software products.
C202.5	Design metrics for process and products with the help of risk and quality management

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202.1	3	2	3	2	2	-	-	-	-	-	-	2
C202.2	3	3	3	3	2	-	-	-	2	2	-	2
C202.3	3	3	3	3	2	-	-	-	2	2	-	2
C202.4	3	2	3	3	2	2	2	2	-	-	-	2
C202.5	3	2	2	3	2	-	-	2	-	-	-	2
Average	**3.0**	**2.4**	**2.8**	**2.8**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**-**	**2.0**

CO-PSO MAPPING:

	PSO1	PSO2	PSO3
C202.1	2	2	2
C202.2	3	3	-
C202.3	3	3	-
C202.4	3	3	-
C202.5	3	3	2
Average	**2.8**	**2.8**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Programming with Python | **Regulation: R22**
Year &Sem: I-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr S Rao Chintalapudi | **Course Code:C203**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C203.1	Examine Python syntax and semantics, flow control.
C203.2	Demonstrate proficiency in handling Strings and Arrays.
C203.3	Apply Python Programs using core data structures like Lists, Dictionaries.
C203.4	Conduct experiments on file handling, exception handling, and modules.
C203.5	Interpret the concepts of Object-Oriented Programming as used in Python.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203.1	3	3	2	2	2	-	-	-	-	-	-	2
C203.2	3	2	2	3	2	-	-	-	3	3	-	2
C203.3	3	3	3	2	3	-	-	-	-	-	-	2
C203.4	3	2	3	3	3	-	-	-	-	-	-	2
C203.5	3	2	3	3	3	-	-	-	-	-	-	2
Average	**3.0**	**2.4**	**2.6**	**2.6**	**2.6**	**-**	**-**	**-**	**3.0**	**3.0**	**-**	**2.0**

CO-PSO MAPPING:

	PSO1	PSO2	PSO3
C203.1	2	2	-
C203.2	2	2	3
C203.3	2	3	3
C203.4	2	3	3
C203.5	2	3	3
Average	**2.0**	**2.6**	**3.0**

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-PSO MAPPING

Course Name: Computer Organization and Architecture | **Regulation: R22**
Year &Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: G.Pavan | **Course Code:C204**

Course Outcomes:

At the end of the course student will be able to	
C204.1	Identity of computer organization architecture.
C204.2	Analyze the basics of instruction sets and their functionality.
C204.3	Evaluate arithmetical operations by using data.
C204.4	Demonstrate the functional units of the computer.
C204.5	Design a pipeline for consistent execution of instructions.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	3	3	2	-	-	-	-	-	-	-	-
C204.2	3	3	3	3	-	-	-	-	-	-	-	-
C204.3	3	2	2	3	2	-	-	-	-	-	-	-
C204.4	3	2	2	3	2	-	-	-	-	-	-	-
C204.5	3	2	3	3	2	-	-	-	-	-	-	-
Average	**3.0**	**2.4**	**2.6**	**2.8**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C204.1	3	-	-
C204.2	2	3	-
C204.3	2	3	-
C204.4	2	2	-
C204.5	2	-	-
Average	**2.2**	**2.66**	**-**

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-PSO MAPPING

Course Name: Operating Systems | **Regulation: R22**
Year &Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: S.Kiran | **Course Code:C205**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C205.1	Demonstrate the basic concepts of Operating Systems.
C205.2	Implement various process scheduling algorithms and deadlock techniques.
C205.3	Examine various process management concepts and IPC.
C205.4	Apply memory management strategies and page replacement algorithms.
C205.5	Analyze file management and disk management aspects of operating systems

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205.1	3	2	2	2	2	-	-	-	-	2	-	-
C205.2	3	3	3	2	2	-	-	-	2	-	-	2
C205.3	3	3	2	2	2	-	-	-	-	-	-	2
C205.4	3	3	3	2	2	-	-	-	-	-	-	-
C205.5	3	3	2	2	2	-	-	-	-	-	-	-
Average	**3.0**	**2.8**	**2.4**	**2.0**	**2.0**	**-**	**-**	**-**	**2.0**	**2.0**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C205.1	2	3	2
C205.2	3	2	-
C205.3	3	2	2
C205.4	3	2	-
C205.5	3	2	-
Average	**2.4**	**2.2**	**2.0**

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-PSO MAPPING

Course Name: Python Lab | **Regulation: R22**
Year &Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr S Rao Chintalapudi | **Course Code:C206**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C206.1	Apply basic Python syntax and control structures.
C206.2	Develop programs using functions and data structures.
C206.3	Implement file handling and exception handling.
C206.4	Apply object-oriented programming concepts.
C206.5	Develop applications using modules, GUI, and scientific libraries.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C206.1	3	3	3	2	-	-	-	-	2	3	-	2
C206.2	3	2	3	2	3	-	-	-	2	-	-	-
C206.3	3	3	3	3	3	-	-	-	2	-	-	2
C206.4	3	2	3	3	3	2	2	-	2	-	-	2
C206.5	3	2	3	3	3	-	-	2	2	-	-	2
Average	**3.0**	**2.4**	**3.0**	**2.6**	**3.0**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C206.1	2	-	-
C206.2	3	-	-
C206.3	3	3	-
C206.4	2	3	2
C206.5	2	3	2
Average	**2.4**	**3.0**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Software Engineering Lab | **Regulation: R22**
Year &Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: U.Saritha | **Course Code:C207**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C207.1	Translate end-user requirements into system and software requirements.
C207.2	Design the Software Configuration Management and Risk Management.
C207.3	Measure the high-level design of the system from the software requirements.
C207.4	Develop awareness of testing problems with testing report.
C207.5	Demonstrate the sample project.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C207.1	3	3	2	-	1	-	-	-	1	2	-	1
C207.2	2	2	3	-	2	-	-	-	2	1	3	1
C207.3	3	2	3	2	2	-	-	-	1	1	2	1
C207.4	2	3	2	3	2	-	-	-	1	2	-	1
C207.5	2	2	3	1	3	-	-	-	3	3	2	2
Average	**2.4**	**2.4**	**2.6**	**2.0**	**2.0**	**-**	**-**	**-**	**1.6**	**1.8**	**2.3**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C207.1	2	1	1
C207.2	1	2	1
C207.3	2	2	1
C207.4	2	1	2
C207.5	2	2	3
Average	**1.8**	**1.6**	**1.6**

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

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

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CO-PO-PSO MAPPING

Course Name: Operating Systems Lab | **Regulation: R22**
Year &Sem: II-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: S.kiran | **Course Code:C208**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C208.1	Examine different operating system concepts.
C208.2	Develop C programs using Unix system call.
C208.3	Illustrate the following IPC mechanisms
C208.4	Simulate Page Replacement Algorithms.
C208.5	Demonstrate Deadlock management.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C208.1	3	2	2	2	2	-	-	-	-	2	-	-
C208.2	3	3	3	2	2	-	-	-	2	-	-	2
C208.3	3	3	2	2	2	-	-	-	-	-	-	2
C208.4	3	3	3	2	2	-	-	-	-	-	-	-
C208.5	3	3	2	2	2	-	-	-	-	-	-	-
Average	**3.0**	**2.8**	**2.4**	**2.0**	**2.0**	**-**	**-**	**-**	**2.0**	**2.0**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C208.1	2	3	2
C208.2	3	2	-
C208.3	3	2	2
C208.4	3	2	-
C208.5	3	2	-
Average	**2.4**	**2.2**	**2.0**

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-PSO MAPPING

Course Name: NodeJS/ React JS/Django | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: K Madhu | **Course Code:C209**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C209.1	Implement website with HTML, CSS, Bootstrap and little JavaScript
C209.2	Demonstrate Advanced features of JavaScript and learn about JDBC
C209.3	Develop Server – side implementation using Java technologies
C209.4	Experiment on server – side programming using Node JS
C209.5	Design a Single Page Application using React

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C209.1	3	2	3	3	3	2	-	-	-	-	-	3
C209.2	3	2	3	3	3	-	2	-	3	3	-	3
C209.3	3	2	3	3	3	-	-	-	-	-	-	3
C209.4	3	2	3	3	3	2	2	-	-	-	-	3
C209.5	3	2	3	3	3	-	-	-	-	-	-	3
Average	**3.0**	**2.0**	**3.0**	**3.0**	**3.0**	**2.0**	**2.0**	**-**	**3.0**	**3.0**	**-**	**3.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C209.1	2	3	-
C209.2	2	3	3
C209.3	2	3	3
C209.4	2	3	3
C209.5	2	3	3
Average	**2.0**	**3.0**	**3.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Automata Theory and Compiler Design | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Ravindran | **Course Code:C210**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C210.1	Describe the fundamental concepts of abstract machines and their formal languages.
C210.2	Design the finite state machines using regular expressions
C210.3	Demonstrate PDA and Turing Machines.
C210.4	Apply lexical and syntax analysis techniques.
C210.5	Develop intermediate code and runtime environments.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C210.1	3	2	1	-	-	-	-	-	-	-	-	1
C210.2	3	3	2	1	1	-	-	-	-	-	-	1
C210.3	3	2	2	2	1	-	-	-	-	-	-	1
C210.4	3	3	3	2	2	-	-	-	-	-	-	1
C210.5	3	2	3	2	3	-	-	-	-	-	-	1
Average	**3.0**	**2.4**	**2.2**	**1.8**	**1.8**	**-**	**-**	**-**	**-**	**-**	**-**	**1.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C210.1	2	1	1
C210.2	2	2	1
C210.3	3	1	1
C210.4	2	3	1
C210.5	2	3	2
Average	**2.2**	**2.0**	**1.2**

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

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CO-PO-PSO MAPPING

Course Name: Database Management Systems | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: G Pavan | **Course Code:C211**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C211.1	Analyze the logical design concepts of the database.
C211.2	Describe the physical model of a database and its operations.
C211.3	Apply the knowledge of SQL to construct the queries for efficient data access and manipulation
C211.4	Implement transaction processing and concurrency control.
C211.5	Examine different indexing mechanisms and database storage access.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO12
C211.1	3	3	3	2	-	-	-	-	-	-	-	-
C211.2	3	2	-	2	-	-	-	-	-	-	-	-
C211.3	3	3	3	2	3	-	-	-	-	-	-	2
C211.4	3	3	2	2	-	-	-	-	-	-	-	2
C211.5	3	3	2	2	-	-	-	-	-	-	-	2
Average	**3.0**	**2.8**	**2.5**	**2.0**	**3.0**	**-**	**-**	**-**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C211.1	3	-	-
C211.2	3	-	-
C211.3	3	3	-
C211.4	3	3	2
C211.5	3	-	-
Average	**3.0**	**3.0**	**2.0**

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

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CO-PO-PSO MAPPING

Course Name: Mathematical and Statistical Foundations | **Regulation: R22**
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	Apply the concepts of probability and Random variables
C212.2	Analyze the concept of Probability distributions to some case studies
C212.3	Formulate and solve problems by apply statistical methods for analyzing experimental data.
C212.4	Demonstrate the concept of estimation and distinguish regression analysis and to compute and interpret the coefficient of correlation.
C212.5	Examine the given statistical hypothesis

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	2	2	2	2	-	-	-	-	-	-	-
C212.2	3	3	2	2	2	-	-	-	-	-	-	-
C212.3	3	3	3	3	2	-	-	-	-	-	-	-
C212.4	3	3	2	2	2	-	-	-	-	-	-	-
C212.5	3	3	2	2	2	-	-	-	-	-	-	-
Average	**3.0**	**2.8**	**2.2**	**2.2**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C212.1	2	-	-
C212.2	2	-	-
C212.3	3	-	-
C212.4	2	-	-
C212.5	2	-	-
Average	**2.2**	**-**	**-**

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

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CO-PO-PSO MAPPING

Course Name: Introduction to Artificial Intelligence | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr K Mahesh | **Course Code: C213**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C213.1	Formulate an efficient problem space for a problem expressed in natural language
C213.2	Select a search algorithm for a problem and estimate its time and space complexities.
C213.3	Representing knowledge using the appropriate technique for a given problem.
C213.4	Apply AI techniques to solve problems of game playing and machine learning.
C213.5	Act on uncertain problem solving.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	3	3	2	2	2	-	-	-	-	-	-	2
C213.2	3	3	2	3	2	-	-	-	-	-	-	2
C213.3	3	2	2	2	3	-	-	-	-	-	-	2
C213.4	3	3	3	3	2	-	-	-	-	-	-	2
C213.5	3	2	3	3	3	-	-	-	-	-	-	2
Average	**3**	**2.6**	**2.4**	**2.6**	**2.4**	**-**	**-**	**-**	**-**	**-**	**-**	**2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C213.1	3	3	3
C213.2	3	2	3
C213.3	2	3	2
C213.4	3	2	2
C213.5	3	3	3
Average	**2.8**	**2.6**	**2.6**

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

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CO-PO-PSO MAPPING

Course Name: Object Oriented Programming through Java | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Madhu | **Course Code:C214**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C214.1	Solve real world problems using OOP techniques
C214.2	Apply the packages and interfaces, streams in I/O.
C214.3	Examine development of exceptions, multithreaded applications with synchronization.
C214.4	Analyze the usage of collection framework.
C214.5	Design GUI based applications using applets and swings.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	3	3	3	3	-	2	-	2	-	-	2
C214.2	3	3	3	2	3	-	-	-	-	-	-	2
C214.3	3	3	2	3	3	-	-	-	-	-	-	2
C214.4	3	3	2	3	3	-	-	-	-	-	-	2
C214.5	3	2	3	3	3	2	-	-	2	-	-	2
Average	**3.0**	**2.8**	**2.6**	**2.8**	**3.0**	**2.0**	**2.0**	**-**	**2.0**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C214.1	3	3	3
C214.2	3	2	-
C214.3	2	3	2
C214.4	2	2	-
C214.5	2	3	2
Average	**2.4**	**2.6**	**2.33**

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

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

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CO-PO-PSO MAPPING

Course Name: Database Management Systems Lab | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: G Pavan | **Course Code:C215**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C215.1	Demonstrate the database design using ER Diagrams.
C215.2	Develop SQL Queries to manipulate the data in the database.
C215.3	Apply Procedural Language constructs to execute a block of SQL statements.
C215.4	Design various triggers for different data using SQL.
C215.5	Implement cursors using SQL.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	2	3	2	2	-	-	-	2	2	-	2
C215.2	3	2	3	2	3	-	-	-	-	-	-	-
C215.3	3	3	3	2	3	-	-	-	-	-	-	-
C215.4	3	2	3	2	3	-	-	-	-	-	-	-
C215.5	3	2	3	2	3	-	-	-	-	-	-	-
Average	**3.0**	**2.2**	**3.0**	**2.0**	**2.8**	**-**	**-**	**-**	**2.0**	**2.0**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C215.1	2	2	2
C215.2	3	3	-
C215.3	3	2	-
C215.4	3	3	-
C215.5	3	3	-
Average	**2.8**	**2.6**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Java Programming Lab | **Regulation: R22**
Year &Sem: II-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: K.Madhu | **Course Code:C216**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C216.1	Execute programs for solving real-world problems using java collection framework.
C216.2	Develop the standalone applications for Multi-Threaded and Exception Handling.
C216.3	Apply OOP in Java Programming in problem solving.
C216.4	Design Java applets and applications.
C216.5	Implement GUI programs using swing controls in Java

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	2	3	3	3	-	2	-	2	3	3	3
C216.2	3	2	3	3	3	2	-	-	-	-	-	-
C216.3	3	2	3	3	2	-	-	2	2	-	2	-
C216.4	3	2	3	3	3	-	-	-	2	3	-	-
C216.5	3	2	3	3	3	-	-	-	2	3	-	-
Average	**3.0**	**2.0**	**3.0**	**3.0**	**2.8**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**2.5**	**3.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C216.1	2	3	3
C216.2	2	3	-
C216.3	3	2	-
C216.4	2	3	-
C216.5	2	3	-
Average	**2.2**	**2.8**	**3.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Prolog/ Lisp/ Pyswip
Year &Sem: II-II
Course Coordinator Name: S.Ramchandra Reddy

Regulation: R22
Branch: CSE (AI&ML)
Course Code:C217

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C217.1	Develop the program in Prolog/Lisp/PYSWIP
C217.2	Demonstrate Real time application
C217.3	Solve Real time problems
C217.4	Experiment program using functions
C217.5	Analyze the prolog predicate

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	3	2	3	1	3	-	-	-	-	-	-	1
C217.2	2	3	3	2	3	-	-	-	-	-	-	1
C217.3	2	3	3	3	2	-	-	-	-	-	-	1
C217.4	2	2	2	2	3	-	-	-	-	-	-	1
C217.5	3	3	2	3	2	-	-	-	-	-	-	2
Average	**2.4**	**2.6**	**2.6**	**2.2**	**2.6**	**-**	**-**	**-**	**-**	**-**	**-**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C217.1	3	3	1
C217.2	2	3	1
C217.3	3	3	1
C217.4	2	2	1
C217.5	3	2	2
Average	**2.6**	**2.6**	**1.2**

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

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

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CO-PO-PSO MAPPING

Course Name: Real-time Research Project/Field-Based Research Project
Regulation: R22
Year &Sem: II-II **Branch: CSE (AI&ML)**
Course Coordinator Name: B.Prashanth **Course Code:C218**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C218.1	Identify and analyze real-world or societal problems to develop effective solutions
C218.2	Apply suitable methods, tools, and technologies to design and implement practical solutions.
C218.3	Evaluate project results and suggest evidence-based improvements.
C218.4	Utilize project management principles to achieve project goals effectively
C218.5	Demonstrate professional communication, ethical behavior, and proper project documentation.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	3	3	2	2	2	2	2	-	-	2	-	2
C218.2	3	3	3	3	3	-	-	-	-	-	-	2
C218.3	3	3	2	3	3	-	2	-	-	-	2	2
C218.4	-	2	2	-	2	-	-	-	2	3	3	2
C218.5	-	-	-	-	2	2	-	2	2	3	2	2
Average	**3.0**	**2.75**	**2.25**	**2.66**	**2.4**	**2.0**	**2.0**	**2.0**	**2.0**	**2.66**	**2.33**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C218.1	3	2	-
C218.2	3	3	-
C218.3	2	3	-
C218.4	-	2	-
C218.5	-	2	3
Average	**2.66**	**2.6**	**3.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Design and Analysis of Algorithms | **Regulation: R22**
Year &Sem: III – I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr.Md.Shareef | **Course Code:C301**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C301.1	Analyzing the algorithm with space and time.
C301.2	Design the algorithm using the divide and conquer greedy approach.
C301.3	Implement dynamic programming strategy.
C301.4	Apply the backtracking technique and branch and bound.
C301.5	Construct the algorithm using the non-deterministic algorithm

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	3	3	2	2	-	-	-	-	-	-	-	-
C301.2	3	2	3	2	-	-	-	-	-	-	-	2
C301.3	3	2	3	2	2	-	-	-	-	-	-	2
C301.4	3	2	3	2	-	-	-	-	-	-	-	2
C301.5	3	2	3	2	2	-	-	-	-	-	-	-
Average	**3.0**	**2.2**	**2.8**	**2.0**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C301.1	2	-	-
C301.2	2	2	-
C301.3	2	2	-
C301.4	2	2	-
C301.5	2	2	-
Average	**2.0**	**2.0**	**-**

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

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

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CO-PO-PSO MAPPING

Course Name: Machine Learning | **Regulation: R22**
Year &Sem: III-1 | **Branch: CSE(AI&ML)**
Course Coordinator Name: G.Parvathi Devi | **Course Code:C302**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C302.1	Distinguish between supervised, unsupervised, and semi-supervised learning techniques
C302.2	**Evaluate** the performance and accuracy of various machine learning algorithms.
C302.3	Build classifiers and design ensemble methods to increase classification accuracy.
C302.4	Implement evolutionary computing algorithms for real-world problems
C302.5	Analyze Reinforcement Learning and Bayesian Networks.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	3	2	-	-		-	-	-	-	-	-	-
C302.2	3	3	3	3	2	-	-	-	-	-	-	2
C302.3	3	3	3	2	3	-	-	-	-	-	-	2
C302.4	3	3	3	2	3	2	2	-	2	-	-	2
C302.5	3	3	2	3	2	-	-	-	-	-	-	3
Average	**3.0**	**2.8**	**2.75**	**2.5**	**2.5**	**2.0**	**2.0**	**-**	**2.0**	**-**	**-**	**2.25**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C302.1	2	-	-
C302.2	3	3	-
C302.3	3	3	-
C302.4	3	3	2
C302.5	3	2	2
Average	**2.8**	**2.75**	**2.0**

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

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CO-PO-PSO MAPPING

Course Name: Computer Networks | **Regulation: R22**
Year &Sem: III-1 | **Branch:CSE(AI&ML)**
Course Coordinator Name: V.RavinderNaik | **Course Code:C303**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C303.1	Enumerate the basic concepts of reference models.
C303.2	Apply sliding window protocols and multiple access protocols
C303.3	Design the routing algorithms, congestion control techniques
C303.4	Analyze TCP and UDP protocols and services of the Transport Layer.
C303.5	Implement different protocols at the application layer.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303.1	3	2	-	-	-	-	-	-	-	-	-	2
C303.2	3	2	2	-	2	-	-	-	-	-	-	-
C303.3	3	2	3	2	2	-	-	-	-	-	-	2
C303.4	3	2	2	2	2	-	-	-	-	-	-	2
C303.5	3	2	3	2	2	-	-	-	-	-	-	2
Average	**3.0**	**2.0**	**2.5**	**2.0**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C303.1	2	-	-
C303.2	3	2	-
C303.3	2	3	-
C303.4	3	2	-
C303.5	2	3	-
Average	**2.4**	**2.5**	**-**

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

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CO-PO-PSO MAPPING

Course Name: Business Economics & Financial Analysis | **Regulation: R22**
Year &Sem: III-1 | **Branch: CSE(AI&ML)**
Course Coordinator Name: Ch.Deepthi Reddy | **Course Code:C304**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C304.1	Describe the various forms of business and Economics.
C304.2	Examine the demand and supply analysis.
C304.3	Explore the usage of pricing strategies in PLC.
C304.4	Analyze the financial accounts of a firm or company.
C304.5	Demonstrate the financial performance of a business using ratio analysis techniques.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304.1	2	-	-	-	-	2	-	-	-	-	2	-
C304.2	2	2	2	-	-	2	2	-	-	-	3	2
C304.3	2	2	2	-	-	2	-	-	-	-	2	-
C304.4	2	2	2	-	-	2	2	-	-	-	3	2
C304.5	2	2	2	-	-	2	-	-	-	2	3	2
Average	**2.0**	**2.0**	**2.0**	**-**	**-**	**2.0**	**2.0**	**-**	**-**	**2.0**	**2.6**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C304.1	2	-	-
C304.2	3		-
C304.3	2	-	-
C304.4	3	-	2
C304.5	3	-	2
Average	**2.6**	**-**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Introduction to Data Science (PE-I) **Regulation: R22**
Year &Sem: III-1 **Branch: CSE(AI&ML)**
Course Coordinator Name: Dr.G.Vinoda Reddy **Course Code:C305**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C305.1	Discuss a flow process for data science problems.
C305.2	Identify types of data and basic Statistical Description.
C305.3	Create vectors, matrices and list using R
C305.4	Develop R codes using iterative programming
C305.5	Correlate results to the solution approach

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305.1	3	2	2	1	1	-	-	-	-	-	-	1
C305.2	3	3	1	2	1	-	-	-	-	-	-	1
C305.3	2	2	3	1	3	-	-	-	-	-	-	1
C305.4	2	2	3	2	3	-	-	-	-	-	-	1
C305.5	2	3	2	3	2	-	-	-	-	-	-	2
Average	**2.4**	**2.4**	**2.2**	**1.8**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C305.1	2	2	1
C305.2	3	1	1
C305.3	2	3	1
C305.4	2	3	1
C305.5	3	2	2
Average	**2.4**	**2.2**	**1.2**

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

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CO-PO-PSO MAPPING

Course Name: Machine Learning Lab | **Regulation: R22**
Year &Sem: III-1 | **Branch: CSE (AI&ML)**
Course Coordinator Name: G.Parvathi Devi | **Course Code:C306**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C306.1	Experiments on Machine Learning algorithms using real-world data
C306.2	Apply the modern notions in data analysis-oriented computing.
C306.3	Implement standard machine learning algorithms .
C306.4	Use Python programming for AI Environment.
C306.5	Analyze the performance of predictive models .

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C306.1	3	2	2	2	2	2	2	-	2	-	-	-
C306.2	3	3	3	3	3	-	-	-	2	-	-	3
C306.3	3	2	3	3	3	-	-	2	2	-	-	3
C306.4	3	2	3	3	3	2	2	2	3	2	-	3
C306.5	3	3	2	3	3	-	-	2	3	3	-	3
Average	**3.0**	**2.4**	**2.6**	**2.8**	**2.8**	**2.0**	**2.0**	**2.0**	**2.4**	**2.5**	**-**	**3.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C306.1	3	-	-
C306.2	3	-	-
C306.3	3	3	2
C306.4	3	3	2
C306.5	3	3	2
Average	**3.0**	**3.0**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Computer Networks Lab
Year &Sem: III-1
Course Coordinator Name: V.Ravinder Naik

Regulation: R22
Branch: CSE(AI&ML)
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 farming methods.
C307.2	Analyze error detection and error correction using CRC codes.
C307.3	Design and implement routing algorithms and congestion control techniques used in networks
C307.4	Develop Encoding and Decoding techniques used in presentation layer
C307.5	Apply network tools for network scanning and security auditing .

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C307.1	3	2	2	-	2	-	-	-		-	-	-
C307.2	3	3	2	2	-	-	-	-	-	-	-	-
C307.3	3	2	3	2	2	-	-		3	3	-	2
C307.4	3	2	2	2	-	-	-		3	-	-	2
C307.5	3	3	2	2	3	2	-	2		-	-	2
Average	**3.0**	**2.4**	**2.2**	**2.0**	**2.33**	**2.0**	**-**	**2.0**	**3.0**	**3.0**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C307.1	3	2	-
C307.2	3	-	-
C307.3	3	3	-
C307.4	3	3	-
C307.5	3	2	2
Average	**3.0**	**2.5**	**2.0**

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

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CO-PO-PSO MAPPING

Course Name: UI design-Flutter | **Regulation: R22**
Year &Sem: III-1 | **Branch: CSE(AI&ML)**
Course Coordinator Name: Dr. K. Mahesh | **Course Code:C308**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C308.1	Install and configure Flutter and Dart environment.
C308.2	Design responsive user interfaces using Flutter widgets.
C308.3	Implement navigation and state management in Flutter apps.
C308.4	Develop forms, validations, and animated UI components.
C308.5	Integrate REST APIs and perform testing and debugging

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C308.1	2	2	2	-	-	-	-	-	-	2	-	2
C308.2	2	2	3	-	3	-	-	-	-	2	-	-
C308.3	2	2	3	-	3	-	-	-	-	2	-	-
C308.4	2	2	3	-	3	-	-	-	-	2	-	2
C308.5	2	2	3	-	3	-	-	-	-	2	-	2
Average	**2.0**	**2.0**	**2.8**	**-**	**3.0**	**-**	**-**	**-**	**-**	**2.0**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C308.1	2	2	2
C308.2	2	2	-
C308.3	2	2	-
C308.4	2	3	2
C308.5	2	3	2
Average	2.0	2.4	2.0

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

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

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CO-PO-PSO MAPPING

Course Name: Knowledge Representation and Reasoning **Regulation: R22**
Year &Sem: III-II **Branch: CSE(AI&ML)**
Course Coordinator Name: M.Ravindran **Course Code:C309**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C309.1	Enumerate the key concepts of knowledge, Representation and Reasoning.
C309.2	Interpret different ontological categories.
C309.3	Apply the principles of knowledge representations.
C309.4	Classify different types of processes and contexts.
C309.5	Interpret vagueness, uncertainity, randomness and ignorance.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C309.1	3	2	1	-	-	-	-	-	-	-	-	1
C309.2	3	2	2	1	-	-	-	-	-	-	-	1
C309.3	3	3	3	2	1	-	-	-	-	-	-	1
C309.4	2	3	2	3	1	-	-	-	-	-	-	1
C309.5	2	3	2	3	1	-	-	-	-	-	-	2
Average	**2.6**	**2.6**	**2.0**	**2.3**	**1.0**	**-**	**-**	**-**	**-**	**-**	**-**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C309.1	2	1	1
C309.2	2	2	1
C309.3	3	3	1
C309.4	2	2	1
C309.5	3	2	2
Average	**2.4**	**2.0**	**1.2**

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

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CO-PO-PSO MAPPING

Course Name: Data Analytics | **Regulation: R22**
Year &Sem: III-1I | **Branch: CSE(AI&ML)**
Course Coordinator Name: K. Bhargavi | **Course Code:C310**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C310.1	Explore various Data Sources and Pre-processing mechanisms.
C310.2	Experiment on data and statistical analysis.
C310.3	Demonstrate on Regression models
C310.4	Analyze the impact of data analytics for business decisions and strategy.
C310.5	Implement standard data visualization and formal inference procedure

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310.1	3	2	2	2	2	-	-	-	-	-	-	2
C310.2	3	2	3	3	2	-	-	-	-	-	-	2
C310.3	3	2	3	2	2	-	-	-	-	-	-	2
C310.4	3	3	3	2	2	-	-	-	-	-	-	2
C310.5	3	2	3	2	2	-	-	-	-	-	-	2
Average	**3.0**	**2.2**	**2.8**	**2.2**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C310.1	3	2	-
C310.2	3	2	-
C310.3	3	2	-
C310.4	3	2	2
C310.5	3	3	2
Average	**3.0**	**2.2**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Natural Language Processing | **Regulation: R22**
Year &Sem: III-II | **Branch: CSE(AI&ML)**
Course Coordinator Name: K.Nagamani | **Course Code: C311**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C311.1	Summarize the NLP structure documents
C311.2	Use of proper experimental methodology for evaluating NLP systems
C311.3	Construct statistical models over strings, trees and estimate parameters using supervised and unsupervised training methods
C311.4	Implement the NLP algorithms.
C311.5	Design different language modelling Techniques

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3	2	2	-	-	-	-	-	-	-	-	-
C311.2	3	3	2	2	2	-	-	-	-	-	-	2
C311.3	3	3	3	2	2	-	-	-	-	-	-	2
C311.4	3	2	3	-	2	-	-	-	-	-	-	2
C311.5	3	3	3	2	-	-	-	-	-	-	-	2
Average	**3.0**	**2.6**	**2.6**	**2.0**	**2.0**	**-**	**-**	**-**	**-**	**-**	**-**	**3.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C311.1	3	-	-
C311.2	3	2	-
C311.3	3	3	-
C311.4	3	3	-
C311.5	3	2	-
Average	**3.0**	**2.5**	**-**

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

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

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CO-PO-PSO MAPPING

Course Name: Software Testing Methodologies (PE-II) **Regulation: R22**
Year &Sem: III-II **Branch: CSE(AI&ML)**
Course Coordinator Name: B.Swaroopa Rani **Course Code: C312**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C312.1	Compare and contrast the various testing strategies.
C312.2	Experiment on dataflow and domain testing strategies.
C312.3	Build decision tables and KV charts.
C312.4	Apply the graph-based testing metrics to its application.
C312.5	Implement test cases using any automated testing tools (Jmeter or WinRunner).

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	3	2	2	2	-	-	-	-	-	-	-
C312.2	3	3	3	2	3	-	-	-	-	-	-	2
C312.3	3	2	3	2	2	-	-	-	-	-	-	-
C312.4	2	3	2	2	3	-	-	-	-	-	-	2
C312.5	2	2	3	2	3	-	-	-	-	-	-	2
Average	**2.6**	**2.6**	**2.6**	**2.0**	**2.6**	**-**	**-**	**-**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C312.1	3	-	-
C312.2	3	3	2
C312.3	3	3	-
C312.4	2	2	-
C312.5	2	3	2
Average	**2.6**	**2.75**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Fundamentals of Internet of Things (OE-I) | **Regulation: R22**
Year &Sem: III-II | **Branch: CSE(AI&ML)**
Course Coordinator Name: Bushra Tarannum | **Course Code: C313**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C313.1	Understand the basic protocols in sensor networks
C313.2	Analyze Program and configure Arduino boards for various designs.
C313.3	Apply Python programming and interfacing for Raspberry Pi.
C313.4	Design IoT applications in different domains.
C313.5	Discuss Cloud Computing with case study

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	2	1	1	2	-	-	-	-	1	-	1
C313.2	2	2	3	2	3	-	-	-	1	1	1	1
C313.3	2	2	3	2	3	-	-	-	1	1	1	1
C313.4	2	3	3	3	3	-	-	-	1	2	2	1
C313.5	2	3	2	3	2	-	-	-	1	2	1	2
Average	**2.2**	**2.4**	**2.4**	**2.2**	**2.6**	**-**	**-**	**-**	**1.0**	**1.4**	**1.2**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C313.1	2	1	1
C313.2	2	3	1
C313.3	2	3	1
C313.4	3	3	2
C313.5	3	2	2
Average	**2.4**	**2.4**	**1.4**

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

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CO-PO-PSO MAPPING

Course Name: Data Analytics Lab | **Regulation: R22**
Year &Sem: III-II | **Branch: CSE(AI&ML)**
Course Coordinator Name: K. Bhargavi | **Course Code:C314**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C314.1	Apply data preprocessing methods
C314.2	Develop linear regression and logistic regression models.
C314.3	Design different classification models.
C314.4	Apply data visualization techniques using different graphs.
C314.5	Design predictive models for different types of data.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	3	3	2	2	3	-	-	-	2	1	1	1
C314.2	3	3	3	2	3	-	-	-	2	1	1	1
C314.3	2	3	3	3	3	-	-	-	2	2	1	1
C314.4	2	2	2	2	3	-	-	-	1	2	1	1
C314.5	2	3	3	3	3	-	-	-	2	2	2	2
Average	**2.4**	**2.8**	**2.6**	**2.4**	**3.0**	**-**	**-**	**-**	**1.8**	**1.6**	**1.2**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C314.1	3	2	1
C314.2	3	3	1
C314.3	3	3	1
C314.4	2	3	1
C314.5	3	3	2
Average	**2.8**	**2.8**	**1.2**

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

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

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CO-PO-PSO MAPPING

Course Name: Advanced English Communication Skill Lab **Regulation: R22**
Year &Sem: III-II **Branch: CSE(AI&ML)**
Course Coordinator Name: Ruby Bhatia **Course Code:C315**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C315.1	Interpret the vocabulary to improve the fluency in English.
C315.2	Comprehend effectively in different contexts.
C315.3	Develop proficiency in academic reading and writing.
C315.4	Identify possibilities of job prospects.
C315.5	Communicate effectively in formal and informal contexts.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	2	-	-	-	-	-	-	-	-	3	-	2
C315.2	2	-	-	-	-	-	-	-	2	3	-	2
C315.3	2	-	-	-	-	-	-	-	-	3	-	3
C315.4	2	-	-	-	-	2	-	-	-	2	-	3
C315.5	2	-	-	-	-	-	-	-	3	3	-	2
Average	**2.0**	**-**	**-**	**-**	**-**	**2.0**	**-**	**-**	**2.5**	**2.8**	**-**	**2.4**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C315.1	-	-	3
C315.2	-	-	3
C315.3	-	-	3
C315.4	2	-	3
C315.5	-	-	3
Average	**2.0**	**-**	**3.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Natural Language Processing Lab | **Regulation: R22**
Year &Sem: III-II | **Branch: CSE(AI&ML)**
Course Coordinator Name: K.Nagamani | **Course Code:C316**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C316.1	Apply Tokenization and Stop word Removal techniques.
C316.2	Develop Porter stemmer algorithm for stemming.
C316.3	Design NLP model for POS tagging.
C316.4	Develop Morphological Analysis using NLTK library.
C316.5	Build a model that converts audio into text using NLTK.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	3	3	2	2	3	-	-	-	-	-	-	1
C316.2	3	2	3	2	3	-	-	-	-	-	-	1
C316.3	2	3	3	3	3	-	-	-	-	-	-	1
C316.4	2	2	3	3	3	-	-	-	-	-	-	1
C316.5	2	3	3	3	3	-	-	-	-	-	-	2
Average	**2.4**	**2.6**	**2.8**	**2.6**	**3.0**	**-**	**-**	**-**	**-**	**-**	**-**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C316.1	3	2	1
C316.2	3	3	1
C316.3	3	3	1
C316.4	2	3	1
C316.5	3	3	2
Average	**2.8**	**2.8**	**1.2**

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

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CO-PO-PSO MAPPING

Course Name: Industrial Oriented Mini Project/ Internship/Skill Development Course(DevOps)

Regulation: R22Year &Sem: III-II **Branch: CSE(AI&ML)**

Course Coordinator Name: SK. Sharif **Course Code:C317**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C317.1	Identify and explain the problem clearly, generate creative ideas to solve it, and analyze the problem critically to develop effective solutions.
C317.2	Apply appropriate methods, tools, and technologies to design and implement practical and functional solutions
C317.3	Analyze project results, interpret findings, and evaluate outcomes to suggest evidence-based improvements
C317.4	Evaluate contributions to achieve project goals through project management principles
C317.5	Demonstrate professional communication and ethical behavior through proper project documentation and presentation

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	3	3	2	2	2	2	-	-	-	2	-	3
C317.2	3	3	3	3	3	-	-	-	-	-	-	2
C317.3	3	3	2	3	3	-	-	2	-	-	2	2
C317.4	2	2	2	-	2	-	2	-	2	3	3	2
C317.5	-	-	-	-	2	2	2	2	2	3	2	3
Average	**2.75**	**2.75**	**2.25**	**2.66**	**2.4**	**2.0**	**2.0**	**2.0**	**2.0**	**2.66**	**2.33**	**2.4**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C317.1	3	2	-
C317.2	3	3	-
C317.3	3	3	3
C317.4	-	3	3
C317.5	-	2	3
Average	**3.0**	**2.6**	**3.0**

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

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CO-PO-PSO MAPPING

Course Name: Professional Practice, Law & Ethics | **Regulation: R20**
Year &Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: D. Laxmi | **Course Code:C401**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C401.1	Practice ethics and rule of the land in their profession
C401.2	Follow the principles and elements of legal contracts
C401.3	Able to resolve disputes pertaining to arbitration, reconciliation
C401.4	Aware of intellectual property loss.
C401.5	Discuss the Law relating to Intellectual property

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C401.1	2	2	1	-	-	2	2	3	1	2	1
C401.2	2	3	2	1	-	2	-	2	1	2	2
C401.3	1	3	2	2	-	3	-	2	2	2	2
C401.4	1	2	1	1	-	2	-	3	1	2	1
C401.5	1	2	1	1	-	2	-	3	1	2	1
Average	**1.4**	**2.4**	**1.4**	**1.3**	**-**	**2.2**	**2.0**	**2.6**	**1.2**	**2.0**	**1.4**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C401.1	1	1	3
C401.2	1	1	2
C401.3	1	1	2
C401.4	1	1	3
C401.5	1	1	3
Average	**1.0**	**1.0**	**2.6**

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

D. Laxmi.
Course Coordinator

Module Coordinator

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CO-PO-PSO MAPPING

Course Name: Deep Learning | **Regulation: R22**
Year &Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: S Ramachandra Reddy | **Course Code:C402**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C402.1	Implement deep Learning algorithms and their applications in real-world data.
C402.2	Create optimal usage of data for training deep models.
C402.3	Apply CNN models for real-world data.
C402.4	Create and Evaluate RNN models for real-world data
C402.5	Develop deep models for real-world problems.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C402.1	3	3	3	2	3	-	-	-	-	-	1
C402.2	3	3	2	3	3	-	-	-	-	-	1
C402.3	3	2	3	3	3	-	-	-	-	-	1
C402.4	3	2	3	3	3	-	-	-	-	-	1
C402.5	3	3	3	3	3	-	-	-	-	-	2
Average	**3.0**	**2.6**	**2.8**	**2.8**	**3.0**	**-**	**-**	**-**	**-**	**-**	**1.2**

CO-PO-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	2
Average	**3.0**	**3.0**	**1.2**

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

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

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CO-PO-PSO MAPPING

Course Name: Cloud Computing (PE-III) **Regulation: R22**
Year &Sem: IV-I **Branch: CSE (AI&ML)**
Course Coordinator Name: B.Prashanth **Course Code:C403**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C403.1	Practice on different computing paradigms and potential of the paradigms and specifically cloud computing.
C403.2	Identify cloud service types, and practice on cloud deployment models and technologies supporting and driving the cloud.
C403.3	Acquire the knowledge of programming models for cloud and development of software application that runs the cloud and various services available from major cloud providers.
C403.4	Design networking for cloud computing.
C403.5	Analyze security concerns and issues in cloud computing.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C403.1	3	2	-	-	2	2	-	-	-	-	-
C403.2	3	3	-	-	-	2	-	-	-	-	2
C403.3	3	3	3	2	3	2	-	-	-	-	2
C403.4	3	3	3	2	3	2	-	-	-	-	2
C403.5	3	3	2	2	2	2	2	-	-	-	2
Average	**3.0**	**2.8**	**2.66**	**2.0**	**2.5**	**2.0**	**2.0**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C403.1	3	2	-
C403.2	3	-	-
C403.3	3	3	-
C403.4	3	3	-
C403.5	3	2	2
Average	**3.0**	**2.5**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Generative AI (PE-IV) **Regulation: R20**
Year &Sem: IV-I **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Balaji **Course Code:C404**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C404.1	List the challenges of Generative modeling
C404.2	Illustrate the Generative models for Text
C404.3	Describe the different image Generative models
C404.4	Outline the different models for generating painting and music
C404.5	Summarize open source models for generating text, image, music

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C404.1	3	2	1	1	1	-	-	-	-	-	-
C404.2	3	3	2	2	2	-	-	-	-	-	-
C404.3	3	2	2	2	2	-	-	-	-	-	-
C404.4	2	2	2	2	2	-	-	-	-	-	-
C404.5	2	3	2	3	3	-	-	-	-	-	1
Average	**2.6**	**2.4**	**1.8**	**2.0**	**2.0**	**-**	**-**	**-**	**-**	**-**	**1.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C404.1	2	2	2
C404.2	3	3	2
C404.3	3	3	2
C404.4	2	3	2
C404.5	3	3	3
Average	**2.6**	**2.8**	**2.2**

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

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

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CO-PO-PSO MAPPING

Course Name: Electronic Sensors (OE-II) | **Regulation: R22**
Year &Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: Dr K.Mohana lakshmi | **Course Code:C405**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C405.1	Describe sensor Principle, Classification and Characterization.
C405.2	Explore the working of Electromechanical, Thermal Sensors
C405.3	Design a Magnetic sensors
C405.4	Use a system with sensors.
C405.5	Analyze the basic concepts of Smart Sensors.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C405.1	3	2	-	-	-	-	-	-	-	-	-
C405.2	3	2	-	-	-	-	-	-	-	-	2
C405.3	3	3	3	2	2	-	-	-	-	-	2
C405.4	3	3	2	2	3	-	2	-	-	-	2
C405.5	2	3	2	2	2	-	2	-	-	-	2
Average	**2.8**	**2.6**	**2.33**	**2.0**	**2.33**	**-**	**2.0**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C405.1	3	-	-
C405.2	3	-	-
C405.3	3	3	-
C405.4	3	3	-
C405.5	2	2	2
Average	**2.8**	**2.66**	**2.0**

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

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CO-PO-PSO MAPPING

Course Name: Deep Learning lab | **Regulation: R20**
Year &Sem: IV –I | **Branch: CSE (AI&ML)**
Course Coordinator Name: S Ramachandra Reddy | **Course Code:C406**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C406.1	Choose the Spyder IDE Environment.
C406.2	Interpret Keras, Tensorflow and Pytorch libraries.
C406.3	Apply the Convolution Neural Network on computer vision problems.
C406.4	Build a sentiment analysis model on IMDB dataset and use RNN layers
C406.5	Evaluate Deep Learning Algorithms and Solve Real-world problems.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C406.1	2	1	1	1	3	-	-	-	2	1	1
C406.2	2	2	2	1	3	-	-	-	2	1	1
C406.3	3	3	3	3	3	-	-	-	2	2	1
C406.4	3	3	3	3	3	-	-	-	2	2	1
C406.5	3	3	3	3	3	-	-	-	2	2	2
Average	**2.6**	**2.4**	**2.4**	**2.2**	**3.0**	**-**	**-**	**-**	**2.0**	**1.6**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C406.1	2	2	1
C406.2	2	3	1
C406.3	3	3	1
C406.4	3	3	2
C406.5	3	3	2
Average	**2.6**	**2.8**	**1.4**

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

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

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CO-PO-PSO MAPPING

Course Name: Cloud Computing Lab (PE-III Lab) | **Regulation: R20**
Year &Sem: IV –I | **Branch: CSE (AI&ML)**
Course Coordinator Name: B.Prashanth | **Course Code:C407**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C407.1	Install virtualbox/vmware workstation with different flavors using different OS.
C407.2	Install Google app engine.
C407.3	Simulate cloud scenarios using Cloudsim.
C407.4	Find procedures for cloud service providers like cloudsim, Globus Toolkit
C407.5	Examine various programming paradigm suitable to solve real world and scientific problems using cloud services.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C407.1	2	1	1	1	3	-	-	-	2	1	1
C407.2	2	2	2	1	3	-	-	-	2	1	1
C407.3	3	3	3	3	3	-	-	-	2	2	1
C407.4	2	3	2	2	3	-	-	-	2	2	1
C407.5	3	3	3	3	3	-	-	-	2	2	2
Average	**2.4**	**2.4**	**2.2**	**2.0**	**3.0**	**-**	**-**	**-**	**2.0**	**1.6**	**1.2**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C407.1	1	2	1
C407.2	2	3	1
C407.3	2	3	1
C407.4	2	3	1
C407.5	3	3	2
Average	**2.0**	**2.8**	**1.2**

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

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CO-PO-PSO MAPPING

Course Name: Project Stage-I | **Regulation: R20**
Year &Sem: IV-I | **Branch: CSE (AI&ML)**
Course Coordinator Name: G.Sravan Rao | **Course Code:C408**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C408.1	Identify a real-time problem and its objectives.
C408.2	Analyze relevant literature for identify research gaps
C408.3	Apply appropriate design and modeling techniques for problem-solving.
C408.4	Demonstrate effective presentation skills and meaningful contribution to the project work.
C408.5	Justify and defend the project effectively in viva.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C408.1	3	3	2	2	2	2	2		-	-	2
C408.2	3	3	2	3		-	-		-	-	2
C408.3	3	2	3	2	3	2	2	2	-	2	2
C408.4	2	2	-	-		-	2	3	3	2	2
C408.5	2	2	-	-	-	-	2	3	3	2	2
Average	**2.6**	**2.4**	**2.33**	**2.33**	**2.5**	**2.0**	**2.0**	**2.66**	**3.0**	**2.0**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C408.1	3	2	2
C408.2	3	2	2
C408.3	3	3	2
C408.4	2	2	3
C408.5	2	2	3
Average	**2.6**	**2.2**	**2.4**

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

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CO-PO-PSO MAPPING

Course Name: Web Security (PE-V) | **Regulation: R20**
Year &Sem: IV- I | **Branch: CSE (AI&ML)**
Course Coordinator Name: M. Lalitha | **Course Code:C409**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C409.1	Gain knowledge of Ad Hoc and Wireless Sensor Networks.
C409.2	Compare the MAC and routing protocols for ad hoc networks.
C409.3	Design the solutions for TCP over Ad-hoc sensor networks.
C409.4	Solve the issues in real-time application development based on ASN.
C409.5	Develop the applications in the domain of ASN.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C409.1	3	2	1	1	1	-	-	2	-	1	-
C409.2	3	3	2	2	1	-	-	2	-	1	-
C409.3	3	3	3	3	2	-	-	2	1	1	1
C409.4	2	3	3	3	2	-	-	2	1	2	1
C409.5	2	3	3	3	3	-	-	2	1	2	2
Average	**2.6**	**2.8**	**2.4**	**2.4**	**1.8**	**-**	**-**	**2.0**	**1.0**	**1.4**	**1.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C409.1	2	1	1
C409.2	2	2	1
C409.3	2	3	1
C409.4	2	3	1
C409.5	3	3	2
Average	**2.2**	**2.4**	**1.2**

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

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

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CO-PO-PSO MAPPING

Course Name: Robotic Process Automation (PE–VI) **Regulation: R22**
Year &Sem: IV-I **Branch: CSE (AI&ML)**
Course Coordinator Name: A Ramesh **Course Code:C410**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C410.1	Implement the concepts of Robotic Process Automation and UI Path tool.
C410.2	Apply the flow chart mechanism in various calculations.
C410.3	Design controls, OCR, Plugins, and extensions.
C410.4	Create user events, exception handling and debugging techniques.
C410.5	Prepare system management techniques.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C410.1	3	2	1	1	3	-	-	1	-	1	-
C410.2	2	3	3	2	3	-	-	1	1	1	1
C410.3	2	3	3	3	3	-	-	1	1	1	1
C410.4	2	2	3	3	3	-	-	2	1	2	1
C410.5	2	3	3	3	3	-	-	2	1	2	2
Average	**2.2**	**2.6**	**2.6**	**2.4**	**3.0**	**-**	**-**	**1.4**	**1.0**	**1.4**	**1.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C410.1	2	2	1
C410.2	2	3	1
C410.3	3	3	1
C410.4	2	3	1
C410.5	3	3	2
Average	**2.4**	**2.8**	**1.2**

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

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

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CO-PO-PSO MAPPING

Course Name: Data Visulization Using Python (OE–III) **Regulation: R20**
Year &Sem: IV-II **Branch: CSE (AI&ML)**
Course Coordinator Name: Bushra Tarannum **Course Code:C411**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C411.1	Apply visualization principles using Python libraries.
C411.2	Analyze datasets using Pandas and Matplotlib.
C411.3	Evaluate data patterns using Seaborn and Altair.
C411.4	Implement interactive visualization techniques using Plotly.
C411.5	Examine advanced visualizations using Plotnine.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C411.1	3	2	-	-	3	-	-	-	-	-	-
C411.2	3	2	2	-	3	-	-	-	-	-	-
C411.3	3	3	2	2	3	-	-	-	-	-	-
C411.4	3	3	3	2	3	-	-	-	-	-	2
C411.5	3	2	2	3	2	-	-	-	-	-	2
Average	**3.0**	**2.2**	**2.25**	**2.25**	**2.8**	**-**	**-**	**-**	**-**	**-**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C411.1	3	2	-
C411.2	3	2	-
C411.3	3	2	-
C411.4	3	3	2
C411.5	3	2	2
Average	**3.0**	**2.2**	**2.0**

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

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

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CO-PO-PSO MAPPING

Course Name: Project Stage– II including Seminar | **Regulation: R20**
Year &Sem: IV-II | **Branch: CSE (AI&ML)**
Course Coordinator Name: M.Balaji | **Course Code:C412**

Course Outcomes:

At the end of the course student will be able to	
CO#	Course Outcome
C412.1	Apply analytical and numerical techniques to model and solve engineering problems.
C412.2	Design experimental setups and execute the project using tools and methods.
C412.3	Interpret results, extract key findings, and demonstrate technical depth and contribution.
C412.4	Compile and structure a comprehensive project report
C412.5	Demonstrate and defend the project effectively.

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C412.1	3	3	2	2	2	-	-	2	-	-	2
C412.2	3	3	3	2	3	2	2	2	3	3	2
C412.3	3	3	3	3	2	2	2	3	-	3	2
C412.4	-	-	-	-	-	-	-	3	-	-	-
C412.5			-	-	-	-	2	3	2	-	2
Average	**3.0**	**3.0**	**2.66**	**2.33**	**2.33**	**2.0**	**2.0**	**2.6**	**2.5**	**3.0**	**2.0**

CO-PO-PSO MAPPING:

	PSO1	PSO2	PSO3
C412.1	3	2	2
C412.2	3	3	2
C412.3	3	3	2
C412.4	2	2	3
C412.5	2	2	3
Average	**2.6**	**2.4**	**2.4**

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

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

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