



METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution)
(Approved by AICTE, New Delhi, Affiliated to Osmania University)
Accredited by NBA and NAAC with A+ Grade

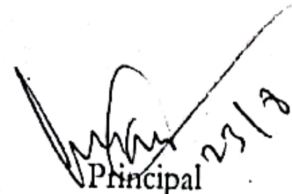
Date: 22-08-2023

ALMANAC - Autonomous
(For the Academic Year 2023-24)
B.E. – III Semester (All Branches)

S.No	Details	Date of Commencement
1	Commencement of Class work	19-09-2023
2	Dussera Holidays(Tentative)	22-10-2023 to 28-10-2023
3	CIE (Internal Test)-I	15-11-2023 to 18-11-2023
4	Display of CIE-I marks on or before	21-11-2023
5	CIE (Internal Test)- II	9-01-2024 to 12-01-2024
6	Last Date of Instruction	12-01-2024
7	Display of CIE-II marks on or before	21-01-2024
8	Display of total CIE Marks and submission to Exam Branch	22-01-2024
9	Sankranthi Holidays(Tentative)	15-01-2024 to 20-1-2024
10	Preparation and practical Examination	22-01-2024 to 03-02-2024
11	Commencement of Theory Examinations	05-02-2024
12	Commencement of Next Semester Class Work	19-02-2024


Dean-Academics




Principal
PRINCIPAL
METHODIST COLLEGE OF ENGG. & TECH
King Koti Road, Abids, Hyderabad

Copy to:

1. The Director
2. All HoD's – for circulation
3. Dean - Q&A /Exams / R&D



CSE ODD SEM FACULTY SUBJECT PREFERENCE FORM for AY 2023-24

Dear All

Greetings

I am hereby sharing the subject preference form , kindly request all faculties to fill the form by EOD

Thanks and Regards

Dr P Lavanya

HOD-CSE

Note : CSE ODD SEM Syllabus Link

[https://docs.google.com/document/d/15Xis06hCe7OKytRVHcO2mySXrfw05ri9/edit?](https://docs.google.com/document/d/15Xis06hCe7OKytRVHcO2mySXrfw05ri9/edit?usp=sharing&oid=100251572859482777210&rtpof=true&sd=true)

[usp=sharing&oid=100251572859482777210&rtpof=true&sd=true](https://docs.google.com/document/d/15Xis06hCe7OKytRVHcO2mySXrfw05ri9/edit?usp=sharing&oid=100251572859482777210&rtpof=true&sd=true)

* Indicates required question

1. Email *

2. Email *

3. Willing to continue in the next semester *

Mark only one oval.

☐ NO

☐ YES

4. Name of the Faculty *

5. Designation *

Mark only one oval.

☐ Professor

☐ Associate Professor

☐ Assistant Professor

6. Phone Number *

7. Over all Experience *

8. Experience in Methodist *

9. Previously Taught Subjects *

10. Theory Subject Preference-I *

Mark only one oval.

- ☐ III SEM CSE 3PC302CS Discrete MathematicsV
- ☐ SEM CSE 3PC508CS Software Engineering PE-1
- ☐ 3PE503CS Agile Methodologies
- ☐ PE-1 3PE504CS Principles of Programming LanguagesPE-
- ☐ IV PE745CS Deep Learning
- ☐ PE-III PE 734 CS Software Reuse Techniques

11. Theory Subject Preference-II *

Mark only one oval.

- ☐ III SEM CSE 3PC302CS Discrete MathematicsV
- ☐ SEM CSE 3PC508CS Software Engineering PE-1
- ☐ 3PE503CS Agile Methodologies
- ☐ PE-1 3PE504CS Principles of Programming LanguagesPE-
- ☐ IV PE745CS Deep Learning
- ☐ PE-III PE 734 CS Software Reuse Techniques

12. Theory+Lab Subject Preference -I *

Mark only one oval.

- ☐ III Sem 3PC301CS Database Management Systems
- ☐ III Sem 3PC303CS Computer Organization and MicroprocessorIII
- ☐ Sem 3PC353CS Python Programming Lab
- ☐ V Sem 3PC507CS Artificial Intelligence
- ☐ V Sem 3ES501CS Digital Image ProcessingVII
- ☐ Sem PC 701 CS Distributed Systems

13. Theory+Lab Subject Preference - II *

Mark only one oval.

- ☐ III Sem 3PC301CS Database Management Systems
- ☐ III Sem 3PC303CS Computer Organization and MicroprocessorIII
- ☐ Sem 3PC353CS Python Programming Lab(ONLY LAB)
- ☐ V Sem 3PC507CS Artificial Intelligence
- ☐ V Sem 3ES501CS Digital Image ProcessingVII
- ☐ Sem PC 701 CS Distributed Systems
- ☐ VII Sem PC 752 CS Web Technologies Lab (ONLY LAB)

14. SDC Preferences *

Mark only one oval.

- ☐ 3PW354CS Skill Development Course- I (IOT)
- ☐ 3PW560CS Skill Development Course- III(Android App Development)

15. I Sem Subject Preference(Theory+Lab) *

Mark only one oval.

- ☐ CSE - I Sem 1ES101CS Programming for Problem solving
- ☐ AI&DS - I Sem 1ES101CS Programming for Problem solving
- ☐ AI&ML - I Sem 1ES101CS Programming for Problem solving

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Google Forms

CSE ODD SEM FACULTY SUBJECT PREFERENCE form for AY 2023-24

(Responses)

S.No	Name of the Faculty	Theory Subject Preference-I	Theory Subject Preference-II	Theory+Lab Subject Preference -I	Theory+Lab Subject Preference - II	SDC Preferences	I Sem Subject Preference(Theory+Lab)
1	K.Muralidhar	SE	PPL	AI	Dis.S	SDC-I(IOT)	CSE - I Sem PPS
2	Dr. U. Moulali	DL	SE	DBMS	AI	SDC-I(IOT)	CSE - I Sem PPS
3	M Krishnamurthy	SRT	SRT	AI	AI	SDC-III(Android)	CSE - I Sem PPS
4	Dr T PRAVEEN KUMAR	DL	AM	Python	WT	SDC-III(Android)	CSE - I Sem PPS
5	T VIJAY KUMAR	PPL	SE	Python	DBMS	SDC-III(Android)	CSE - I Sem PPS
6	Dr. Syed Azahad	SE	SRT	DBMS	Python	SDC-I(IOT)	CSE - I Sem PPS
7	Venkatram Vennam	SE	Dis.M	Python	COM	SDC-I(IOT)	CSE - I Sem PPS
8	Keerthi	PPL	SE	Python	COM	SDC-I(IOT)	AI&DS - I Sem PPS
9	Dr. M Sharada varalakshmi	DL	SRT	DBMS	AI	SDC-III(Android)	CSE - I Sem PPS
10	A.Sowjanya	SE	PPL	Python	COM	SDC-I(IOT)	AI&DS - I Sem PPS
11	J.Sowmya	AM	Dis.M	COM	COM	SDC-I(IOT)	CSE - I Sem PPS
12	Sana Mateen	SE	PPL	AI	DBMS	SDC-I(IOT)	CSE - I Sem PPS
13	Dr. Shaik Khaleel Ahamed	SE	AM	Python	WT	SDC-I(IOT)	CSE - I Sem PPS
14	Shaik Rasool	SE	AM	Python	WT	SDC-I(IOT)	CSE - I Sem PPS
15	Vasavi sravanthi B	SE	DL	DBMS	Python	SDC-III(Android)	CSE - I Sem PPS
16	Dr.G.Saritha	SE	AM	AI	Python	SDC-III(Android)	CSE - I Sem PPS
17	B Sowjanya	PPL	Dis.M	Python	WT	SDC-I(IOT)	CSE - I Sem PPS
18	Unnati Khanapurkar	Dis.M	DL	Python	DIP	SDC-I(IOT)	CSE - I Sem PPS
19	Deva Rajashekar	DL	PPL	Python	Python	SDC-III(Android)	CSE - I Sem PPS
20	Mujithaba Gulam Muqeeth	DL	SE	DBMS	AI	SDC-I(IOT)	CSE - I Sem PPS
21	Dr.Shruthi SK	SRT	DL	Python	Dis.S	SDC-I(IOT)	AI&ML - I Sem PPS
22	Shaik Kareem Basha	PPL	SE	Python	COM	SDC-I(IOT)	CSE - I Sem PPS
23	SRINU DHARAVATH	PPL	SRT	DBMS	Python	SDC-I(IOT)	CSE - I Sem PPS
24	A.A.R.SENTHIL KUMAAR	PPL	SE	Python	DBMS	SDC-I(IOT)	CSE - I Sem PPS
25	Dr P Lavanya	DL	AM	Python	WT	SDC-III(Android)	CSE - I Sem PPS
26	Dr Diana Moses	DL	PPL	COM	DIP	SDC-I(IOT)	CSE - I Sem PPS

AI&DS ODD SEM FACULTY SUBJECT PREFERENCE form for AY 2023-24 (Responses)

S.No	Name of the Faculty	Theory Subject Preference-I	Theory Subject Preference-II	Theory+Lab Subject Preference -I	Theory+Lab Subject Preference - II	SDC Preferences
1	Dr.M Sharada Varada	DM	MC	DBMS	Python	SDC- III(Android)
2	Dr. U. Moulali	DM	NLP	DBMS	Data Science	SDC- I(IOT)
3	M Krishnamurthy	DAA	DAA	Data Science	Data Science	SDC- III(Android)
4	Dr. Syed Azahad	DM	NLP	Python	DBMS	SDC- I(IOT)
5	Dr T PRAVEEN KUMAR	DAA	NLP	Data Science	MMD	SDC- III(Android)
6	T VIJAY KUMAR	PPL	DAA	Python	DBMS	SDC- III(Android)
7	A.Sowjanya	PPL	DM	Python	COM	SDC- I(IOT)
8	Mr.Venkatram Vennu	DM	MC	Python	COM	SDC- I(IOT)
9	J.Sowmya	MC	Dis.M	COM	Python	SDC- I(IOT)
10	Sana Mateen	DM	DAA	Python	DBMS	SDC- I(IOT)
11	KEERTHI	PPL	DM	Python	COM	SDC- I(IOT)
12	Shaik Rasool	DM	MC	Python	DBMS	SDC- I(IOT)
13	Dr. Shaik Khaleel Ahmed	DM	MC	Python	Data Science	SDC- I(IOT)
	Vasavi sravanthi B	NLP	DM	DBMS	Python	SDC- III(Android)
	Dr.G.Saritha	DAA	MC	DBMS	Python	SDC- III(Android)
16	Urmati Khanapurkar	DAA	MC	DBMS	Python	SDC- I(IOT)
17	Mujthaba Gulam Mujthab	DAA	PPL	Data Science	Python	SDC- I(IOT)
18	B Sowjanya	DAA	PPL	Python	Python	SDC- I(IOT)
19	Deva Rajashekar	PPL	DM	Python	Data Science	SDC- III(Android)
20	Dr.Shruthi SK	DM	MC	Python	Data Science	SDC- I(IOT)
21	Shaik Kareem Basha	DAA	PPL	Python	COM	SDC- III(Android)
22	SRINU DHARAVATH	DAA	DM	Python	DBMS	SDC- I(IOT)
23	A.A.R.SENTHIL KUMAR	DAA	PPL	DBMS	DBMS	SDC- I(IOT)
24	K.Muralidhar	PPL	MC	Python	Data Science	SDC- I(IOT)
25	Dr Diana Moses	DM	PPL	COM	V Sem 1ES501AD Digit	SDC- I(IOT)
26	Dr P Lavanya	DM	NLP	Data Science	MMD	SDC- III(Android)

Dept level meeting

A department level meeting was held on 26/08/23 at 1:30 PM in E block I floor 105 Room.

Agenda

1. Subject Allocation of odd Sem
2. Coordinator's Allocation
3. Assessment Committee - Information regarding PO attainment and its template

4

Faculties

1. Dr. P. Lavanya
2. Dr. M. Charada Varalakshmi
3. Dr. G. Saritha
4. Dr. Rajashree
5. Dr. Vasavi Sravanti
6. A. Sowjanya
7. K. Keerthi
8. Sana
9. Dr. Shrothi SN
10. Srinu D
11. Shaik Rasool
12. Muthase G.M
13. Dr. Diana Moses
14. Dr. V. Mohan
15. T. Vijay Kumar
16. Dr. T. Praveen Kumar
17. M. Krishnamany
18. A.A.R. Senthil Kumar
19. Dr. S. Khaleel Ahmed
20. V. Venkatesh
21. Radhika K
22. Dr. Syed Azahad

26/08/23

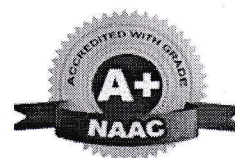
23. Mrs. Umati K - Umati K
 24. V. Sindhya Rani - Sindhya
 25. K. Sindhya - K. Sindhya
 26. V. Ananya - Ananya
 27. B. Ajay Kumar - B. Ajay Kumar
 28. K. Maulalichar - K. Maulalichar
 29. B.D.V.V. Prasad - B.D.V.V. Prasad
 30. P. Raj Kumar - P. Raj Kumar

The following points were discussed.

- 1) Subject allocation is due to all faculties for I, III, V, VII Semesters 2023-24
- 2) No second person will be allotted for lab
- 3) Department level committee coordinators were allotted their corresponding criteria and all other faculties were assigned to each and every criteria
- 4) Classes for III Sem will commence from 19th Sept 23, I and V sem will commence from 04th Sept 23
- 5) College timing will be from 9 AM to 4 PM from 1st Sept 23
- 6) Department committee members held a presentation and explained how the attainment calculations should be done.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE:04-09-2023

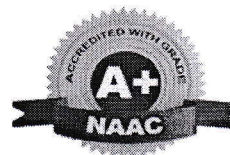
CSE STAFF WORKLOAD(2023-2024 I/III/V/VII SEMESTER)

S. No	Faculty name	Subjects	Work load	Additional Responsibilities
1.	Dr. P. Lavanya Prof. & HOD	DL VII SEM CSE-A-4 PW VII SEM AI&DS-6	10	1. HOD-CSE 2. Dept Approval Copies 3. Mentor
2.	Dr M Saradha varalakshmi Professor	PW VII SEM CSE-B-6	6	1. Academic Council 2. Autonomous Files 3. Department Meetings
3.	Dr T Praveen Kumar Assoc. Prof	DBMS III SEM (CSE-A)-4 DBMS LAB III SEM (CSE-A)-4 PROJECT WORK VII SEM CSE-A-6 SDC-III(AI&DS-B)-2	16	1. Central Time Table Coordinator 2. Mentor 3. Project Coordinator Spoken Tutorials Incharge
4.	Dr. Syed Azahad Assoc Professor	DBMS III SEM (AI&DS-B)-4 DBMS LAB III SEM (AI&DS-B)-4 NLP VII SEM(AI&DS)-4 SDC-I III SEM (CSE-A)-2 SDC-I III SEM (CSE-B)-2	16	1.Head Mentor-cse 2.NSS Incharge 3.Class Incharge 4.Mentor
5.	Dr Diana Moses Assoc Professor	COM III SEM (AI&DS)-B-4 COM LAB III SEM (AI&DS-B)-4 DIP V SEM(AI&DS-B)-4 DIP LAB V SEM (AI&DS-B)-4	16	1. Dept. Assessment Committee Head 2. ARIIA Coordinator
	Dr.Shaik Khaleel Ahmed Assoc Professor	PPL V SEM (CSE-A)-4 DS V SEM (AI&DS-A)-4 DS LAB V SEM (AI&DS-A)-4 SDC-I III SEM (CSE-B)-2 SDC-I III SEM (CSE-A)-2	16	1. Student Affairs 2. IQAC Coordinator 3. Class Coordinator
7.	Dr U .Moulali Assoc. Prof	DBMS III SEM (CSE-B)-4 DBMS LAB III SEM (CSE-B)-4 AI V SEM (CSE-B)-4 AI LAB V SEM (CSE-B)-4	16	1. OU-TBI Coordinator 2. Spoken Tutorials 3. R&D Consultancy Cell
8.	Mr Mujtaba Gulam Assoc. Prof.	PPS I SEM (AI&DS-A)-4 PPS LAB I SEM (AI&DS-A)-4 PPS I SEM (AI&DS-B)-4 PPS LAB I SEM (AI&DS-B)-4	16	1.Honours and Minors Coordinator 2.Mentor
9.	Dr S K Shruthi Assoc. Prof	PPS I SEM(AI&ML)-A -4 PPS LAB I SEM (AI&ML)-2 PAI III SEM(MECH)-3 DS VII SEM(CSE-A)-4 DS LAB VII SEM(CSE-A)-4 DS V SEM (AI&DS-B)-4 DS LAB V SEM (AI&DS-B)-4 PPS I SEM (CSE-C)-4 PPS LAB I SEM (CSE-C)-4 PPS LAB I SEM (AI&ML-B)-2	17	1. Placements Coordinator 2. Mentor 3. Class Coordinator
10.	Mr. D. Raja Shekar Asst. Prof.	PPS I SEM (CSE-C)-4 PPS LAB I SEM (CSE-C)-4 PPS LAB I SEM (AI&ML-B)-2	18	1. Feedback Committee 2. Mentor 3. NBA Committee Member 4. Class Coordinator

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Estd : 2008

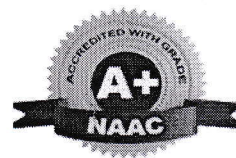
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****DATE:04-09-2023**

11.	Mrs. Unnati K. Asst. Prof.	DIP V SEM(CSE-B)-4 DIP LAB V SEM (CSE-B)-4 DAA V SEM (AI&DS-A)-4 DAA V SEM (AI&DS-B)-4	16	1. CSI Coordinator 2. Mentor 3. Central Lab Incharge 4. Value Added Course Coordinator 5. Class Coordinator
12.	Mrs. B. Sowjanya Asst. Prof.	STLD III SEM (CSE-B)-4 STLD III SEM (AI&DS-A)-4 WT LAB VII SEM CSE-A-4 WT VII SEM CSE-A-2 SDC-I III SEM AI&DS-A-2	16	1. Assessment Committee 2.Mentor
13.	Mr. Krishnamurthy Asst. Prof	PPL V SEM CSE-B-4 SPM VII SEM AI&DS-4 SDC-I III SEM AI&DS-A-2 SDC-I III SEM CSE-A-2 DS LAB V SEM AI&DS-A-4 DS LAB V SEM AI&DS-B-2	18	1. YUKTI Central Coordinator 2. IEDC Coordinator 3. Feedback Committee
14.	Mrs Deepthi Joshi Asst. Prof.	PPS LAB I SEM CSE-A-4 PPS LAB I SEM CSE-B-4 PPS LAB EEE III SEM -4 PPS LAB III SEM CIVIL-A-2 PPS LAB I SEM AI&ML-A-2	16	1. Mentor 2. Faculty coordinator
15.	Mrs Sandhya Rani Asst. Prof.	PPS LAB I SEM CSE-B-4 PPS LAB I SEM AI&DS-A-4 PPS LAB I SEM AI&DS-B-4 PPS LAB I SEM AI&ML-B&C-4 COM LAB III SEM AI&DS-B-2	18	1.Mentor
16.	Mrs Vasavi Sravanthi Asst. Prof.	PPS I SEM AI&ML-B-4 PPS LAB I SEM AI&ML-B-2 PPS I SEM AI&ML-C-4 PPS LAB I SEM AI&ML-C-2 PPS LAB I SEM CSE-B-4	16	1. Mentor 2.Alumini Member 3.Admission committee member
17.	Mr. Shaik Rasool Asst. Prof	PP III SEM CSE-A-2 PP LAB III SEM CSE-A-4 PP III SEM AI&DS-A-2 PP LAB III SEM AI&DS-A-4 WT LAB VII SEM CSE-A-4 WT VII SEM CSE-A-2	18	1 Class Coordinator 2 Mentor 3 IQAC Coordinator 4 Head Mentor-AI&DS
18	Mr.Srinudharavath Asst. Prof.	SE V SEM CSE-B-4 ITAM I SEM MBA-A-4 ITAM LAB I SEM MBA-A-2 DBMS LAB III SEM CSE-A-2 DBMS LAB III SEM CSE-B-4	16	1. Class Coordinator 2.Mentor 3.News letter and Magazine coordinator
19	Mr V Venkatram Asst. Prof.	DM III SEM CSE-A-4 DM III SEM AI&DS-B-4 COM III SEM AI&DS-A-4 COM LAB III SEM AI&DS-A-4	16	1.Exam Branch Coordinator 2.Mentor
20	Mrs A.Sowjanya Asst. Prof.	COM III SEM CSE-A-4 COM LAB III SEM CSE-A-4 DM V SEM AI&DS-B-4 SDC-III V SEM AI&DS-A-2 SDC-III V SEM CSE-A-2	16	1. Time Table Committee Member 2. Mentor 3. Class Coordinator



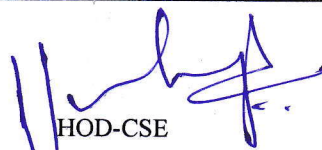
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE:04-09-2023

21	Ms.Sana Mateen Asst. Prof.	AI V SEM (CSE-A)-4 AI LAB V SEM (CSE-A)-4 PP III SEM CSE-B-2 PP LAB III SEM CSE-B-4 SDC-III V SEM AI&DS-A-2 SDC-I III SEM AI&DS-B-2	18	1. Mentor 2. OU-TBI Coordinator 3.Time Table Committee Member
22	Mr T Vijay Kumar Asst. Prof.	DBMS III SEM AI&DS-A-4 DBMS LAB III SEM AI&DS-4 DM III SEM CSE-B-4 SDC III V SEM CSE-A-2 DIP LAB V SEM AI&DS-B-2 DIP LAB V SEM AI&DS-A-2	18	1.Mentor 2.Exam Branch Coordinator 3.Class Coordinator
23	Mr Kareem Basha Asst. Prof.	PPS I SEM CSE-A-4 PPS LAB I SEM CSE-A-4 PPS I SEM CSE-B-4 PPS LAB I SEM CSE-B-4	16	1.Mentor
24	Mrs K Radhika Asst. Prof.	PPS I SEM AI&DS-C-4 PPS LAB I SEM AI&DS-C-4 DL VII SEM AI&DS-4 DL LAB VII SEM AI&DS-4 SDC-III V SEM CSE-B-2	18	1.Library Coordinator 2.Mentor
25	Mrs Harika Asst. Prof.	DL VII SEM CSE-B-4 MMD VII SEM AI&DS-4 MMD LAB VII SEM AI&DS-4 SDC-III V SEM CSE-B-2 PROJECT WORK-AI&DS-6	20	1.Mentor


 HOD-CSE

Head of the Department
Department of CSE
Methodist College of Engg & Tech
Abids, Hyderabad.

Faculty Name: Mrs. Harika(20), Asst.Professor

A.Y: 2022 – 2023

SEM: I/V/VII

W. E. F. 22 – 09 – 2023

Period / Day	1	2	3	4	5	6
	9:15-10:15	10:15 – 11:15	11:15 – 12:15	12:15 – 01:15	01:15-2:00	2:00 – 3:00
Monday	MMD-AD-A		MMD-LAB-AD			3:00-4:00
Tuesday		MMD-AD-A	Project Work – I		DL-CSE-VII SEM-B	
Wednesday	Project Work – I		MMD-AD-A		Project Work – I	
Thursday	DL-CSE-VII SEM-B		MMD-AD-A		DL-CSE-VII SEM-B	
Friday			MMD-LAB-AD			
Saturday	DL-CSE-VII SEM-B		SDC-III-CSE-V SEM-B			

S. NO	COURSE CODE	COURSE NAME	CLASS	Additional Responsibilities
1	PC702AD	MMD-Mining of Massive Datasets	BE VII SEM AD-A	1. Mentor
2	PC752AD	MMD Lab	BE VII SEM AD-A	
3	PE74XCS	Deep Learning	BE VII SEM CSE-B	
4	3PW560CS	Skill Development Course– III	V Semester BE CSE– B	

Faculty


Head of the Department
Head of Department
Methodist College of Engg. & Tech
Abids, Hyderabad.

Course Code	Course Title						Core/ Elective
PC702AD	Mining of Massive Datasets						CORE
Prerequisite	Contact Hours Per Week				CIE	SEE	Credits
	L	T	D	P			
	3	-	-	-	30	70	3
Course Objectives:- 1. To understand the statistics used in data mining. 2. To understand methods for mining frequent itemsets, associations 3. To explain methods for clustering, mining data streams and perform link analysis. It covers mining various types of data stores such as spatial, textual, multimedia, streams. 4. To apply mining in social network graphs 5. To demonstrate the application of mining in advertising on web Course Outcomes:- 1. Recollecting fundamentals of data mining. 2. Extract interesting patterns from large amounts of data. 3. Apply and Evaluate by choosing suitable data mining algorithms for clustering 4. Choose and employ suitable data mining algorithms for mining data streams and link analysis. 5. Acquire knowledge on mining social network graphs and build the case study: Web Advertisement.							

Unit-I

Data Mining: Introduction, Statistical Modeling, Machine Learning, Computational Approaches to Modeling, Feature Extraction, Statistical Limits on Data Mining, Hash Functions, Indexes, Natural Logarithms, Power Laws.

Unit-II

Basic Concepts Efficient and scalable Frequent Item sets mining methods, mining various kinds of association rules, association mining to correlation analysis, Apriori Algorithm, FP growth Handling Larger Datasets in Main Memory, Counting Frequent Items in a Stream.

Unit-III

Clustering: Introduction to Clustering Techniques, Partitioning Algorithm: K-means Algorithms Hierarchical Clustering: BIRCH algorithm, CURE Algorithm, Density Base Clustering: DBSCAN Algorithm, clustering in Non-Euclidean Spaces, and Clustering for Streams and Parallelism.

Unit-IV

Mining Data Streams: The Stream Data Model, Sampling Data in a Stream, Filtering Streams, Counting Distinct Elements in a Stream, Counting Ones in a Window, Decaying Windows. Link Analysis: PageRank, Efficient Computation of PageRank, Topic-Sensitive PageRank, Link Spam, Hubs and Authorities

Unit-V

Mining Social-Network Graphs Social Networks as Graphs, Clustering of Social-Network Graphs, Direct Discovery of Communities, Partitioning of Graphs, Finding Overlapping Communities.

Advertising on the Web: Issues in On-Line Advertising, On-Line Algorithms, The Matching Problem, The Ad words Problem, Ad words Implementation.

Suggested Books:

1. Mining of Massive Datasets - Jure Leskovec, Anand Rajaraman, Jeffrey D. Ullman" (LaTeX)
2. Data Mining. Concepts and Techniques, 3rd Edition . Jiawei Han, Micheline Kamber, Jian Pei
3. Data Mining: Introductory and Advanced Topics- Margaret H Dunham Pearson Edition

SYLLABUS

Unit	Syllabus Description	Target Hours
I	Data Mining: Introduction, Statistical Modeling, Machine Learning, Computational Approaches to Modeling, Feature Extraction, Statistical Limits on Data Mining, Hash Functions, Indexes, Natural Logarithms, Power Laws.	15
II	Basic Concepts Efficient and scalable Frequent Item sets mining methods, mining various kinds of association rules, association mining to correlation analysis, Apriori Algorithm, FP growth Handling Larger Datasets in Main Memory, Counting Frequent Items in a Stream.	15
III	Clustering: Introduction to Clustering Techniques, Partitioning Algorithm: K-means Algorithms Hierarchical Clustering: BIRCH algorithm, CURE Algorithm, Density Base Clustering: DBSCAN Algorithm, clustering in Non-Euclidean Spaces, and Clustering for Streams and Parallelism.	8
IV	Mining Data Streams: The Stream Data Model, Sampling Data in a Stream, Filtering Streams, Counting Distinct Elements in a Stream, Counting Ones in a Window, Decaying Windows. Link Analysis: PageRank, Efficient Computation of PageRank, Topic-Sensitive PageRank, Link Spam, Hubs and Authorities	8
V	Mining Social-Network Graphs Social Networks as Graphs, Clustering of Social-Network Graphs, Direct Discovery of Communities, Partitioning of Graphs, Finding Overlapping Communities. Advertising on the Web: Issues in On-Line Advertising, On-Line Algorithms, The Matching Problem, The Ad words Problem, Ad words Implementation.	6
	Total	52

Sugessted Books:

- 1 .Mining of Massive Datasets - Jure Leskovec, Anand Rajaraman, Jeffrey D. Ullman" (LaTeX)
2. Data Mining. Concepts and Techniques, 3rd Edition . Jiawei Han, Micheline Kamber, Jian Pei
3. Data Mining: Introductory and Advanced Topics- Margaret H Dunham Pearson EditionE –

COURSE OBJECTIVES:

Course Overview:

This course provides an introduction to Data Mining using statistical modeling, Machine Learning and various computational approaches. It also includes various association rules and algorithms for mining the data streams and mining social-Network graphs

The objectives of this course are:

1. To understand the statistics used in data mining.
2. To understand methods for mining frequent item sets, associations
3. To explain methods for clustering, mining data streams and perform link analysis. It covers mining various types of data stores such as spatial, textual, multimedia, streams.
4. To apply mining in social network graphs
5. To demonstrate the application of mining in advertising on web

I. COURSE OUTCOMES

After completing this course the student will be able to:

UNIT I Syllabus			
Introduction: Data Mining: Introduction, Statistical Modeling, Machine Learning, Computational Approaches to Modeling, Feature Extraction, Statistical Limits on Data Mining, Hash Functions, Indexes, Natural Logarithms, Power Laws.			
S. No.	Course Outcome	Taxonomy Level	PO
1.	What is Data Mining and list few techniques of Data Mining	Understanding	PO4
2.	What are the various computational approaches to modelling	Applying	PO1
3.	Explain Feature Extraction and its techniques	Understanding, Analysing	PO4
4.	Define Hash Functions and Natural Logarithms	Understanding	PO1

UNIT II Syllabus			
Basic Concepts Efficient and scalable Frequent Item sets mining methods, mining various kinds of association rules, association mining to correlation analysis, Apriori Algorithm, FP growth Handling Larger Datasets in Main Memory, Counting Frequent Items in a Stream.			
S. No.	Course Outcome	Taxonomy Level	PO
1.	Explain the working of an FP algorithm with an example.	Understanding, Applying , Analysing	PO5
2.	Explain the working of PCY algorithm with an example.	Understanding, Applying , Analysing	PO5
3.	Describe the Apriori Algorithm with steps to implement it.. What are its key principles and advantages?	Understanding, Applying , Analysing	PO5
4.	Define Frequent itemset, Maximal Frequent Itemset and closed frequent itemset	Understanding	PO2
5.	Define Association Rules for data mining	Understanding	PO2

UNIT III Syllabus			
Clustering: Introduction to Clustering Techniques, Partitioning Algorithm: K-means Algorithms			

Hierarchical Clustering: BIRCH algorithm, CURE Algorithm, Density Base Clustering: DBSCAN Algorithm, clustering in Non-Euclidean Spaces, and Clustering for Streams and Parallelism			
S. No.	Course Outcome	Taxonomy Level	PO
1.	What is clustering? Why do businesses need to do clustering?	Understanding	PO2
2.	With an example describe the k-means algorithm.	Understanding, Analysing	PO2
3.	Describe the DBSCAN clustering technique.	Understanding	PO2
4.	Explain CURE algorithm with a suitable example.	Understanding, Analysing	PO2
5.	Describe the BIRCH clustering technique	Understanding	PO2

UNIT IV Syllabus			
Mining Data Streams: The Stream Data Model, Sampling Data in a Stream, Filtering Streams, Counting Distinct Elements in a Stream, Counting Ones in a Window, Decaying Windows. Link Analysis: PageRank, Efficient Computation of PageRank, Topic-Sensitive PageRank, Link Spam, Hubs and Authorities			
S. No.	Course Outcome	Taxonomy Level	PO
1.	What are Data Streams? Discuss the problems associated with Data Streams.	Understanding	PO4
2.	What is the need of Bloom Filters and explain its working.	Applying	PO5
3.	Discuss about Data Stream Management.	Understanding	PO4
4.	Illustrate the example of data stream queries	Applying	PO4
5.	Discuss models of data stream processing.	Understanding	PO4

UNIT V Syllabus			
Mining Social-Network Graphs Social Networks as Graphs, Clustering of Social-Network Graphs, Direct Discovery of Communities, Partitioning of Graphs, Finding Overlapping Communities. Advertising on the Web: Issues in On-Line Advertising, On-Line Algorithms, The Matching Problem, The Ad words Problem, Ad words Implementation.			
S. No.	Course Outcome	Taxonomy Level	PO
1.	How do you mine social network news feeds.	Understanding	PO2
2.	Explain the process of web mining?	Applying	PO2



METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
(An UGC-AUTONOMOUS INSTITUTION)



Estd : 2008

Accredited by NAAC with A+ and NBA
Affiliated to Osmania University & Approved by AICTE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COURSE DESCRIPTION FILE

Academic Year & Semester	2023-24, Semester VII
Course Code	PC 702 AD
Course Title	MINING OF MASSIVE DATASETS
Curriculum Regulation	AICTE
Semester	VI
Course Instructor	Mrs J.Harika, Assistant Professor, CSE Department

PREREQUISITE(S):

Level	Credits	Semester	Prerequisites
UG	3	VII	Students should have basic knowledge of Data Mining.

SCHEME OF INSTRUCTIONS

Lectures	Tutorials	Practicals	Credits
3	-	-	3

SCHEME OF EVALUATION & GRADING

S. No	Component	Duration	Maximum Marks
	Continuous Internal Evaluation (CIE)		
1.	Internal Examination – I	60 minutes	20
2.	Internal Examination - II	60 minutes	20
	Average of the two internal exams		20
3.	Assignments	-	5
4.	Quizzes	-	5
	CIE (Total)		30
5.	Semester End Examination (University Examination)	3 hours	70
	TOTAL		100

Marks Range	85-100	70 to < 85	60 to < 70	55 to < 60	50 to < 55	40 to < 50	< 40	Absent
Grade	S	A	B	C	D	E	F	Ab
Grade Point	10	9	8	7	6	5	0	-

Correlation Level: High – 3; Medium – 2; Low – 1

Correlation Level: High – 3; Medium – 2; Low – 1

[illegible]

Mapping of COs to POs as per Performance Indicators

[illegible]

3.	Explain MapReduce. Illustrate the working of MapReduce with a simple example .	Understanding	PO2
4.	Is Web a directed graph or undirected graph? Discuss the two challenges of web search with examples.	Understanding & Analysing	PO2

CO-PO-BTL:

CO No.	Course Outcome	Taxonomy level	PO	Assessment method
CO1	Ability to recollect the fundamentals of data mining,	L1,L2	PO1	Exam/Seminars/Quiz
CO2	Ability to apply statistics and other mathematical functions for mining the data	L3	PO2,PO4	Exam/Assignment/Quiz/ Demonstration
CO3	Ability to analyze various association rules and implement the algorithms	L4	PO2	Exam/Assignment/Quiz
CO4	Ability to understand the Stream Data Model	L2	PO2,PO5	Exam/Assignment/Quiz
CO5	Ability to implement various clustering algorithms	L3	PO2	Exam/Assignment/Quiz
CO6	Ability to illustrate the different mining algorithms with numerical	L3	PO2,PO3	Exam/Assignment/Quiz

CO-PO/PSO mapping Justification

CO1: Ability to recollect the fundamentals of data mining, (Remember, Understanding)

Mapped POs & PSOs (Direct):PO1, PO3, PO5, PSO1

PO/PSO	Justification
PO1	Apply theory and principles of computer science and engineering to solve an engineering problem.
PO3	Able to perform systematic evaluation of the degree to which several design concepts meet the criteria.
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Discuss limitations and validate tools, techniques and resources .
PSO1	Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments

CO2: Ability to apply statistics and other mathematical functions for mining the data. (Applying)

Mapped POs & PSOs (Direct): PO1 ,PSO1

PO/PSO	Justification
PO1	Apply theory and principles of computer science and engineering to solve an engineering problem.
PSO1	Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments

CO3: Ability to analyse various association rules and implement the algorithms.(Analyse)

Mapped POs & PSOs (Direct): PO2, PSO1

PO/PSO	Justification
PO2	Applies engineering mathematics to implement the solution.
PSO1	Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments

CO4: Ability to understand the Stream Data Model (Understand)

Mapped POs & PSOs (Direct): PO4, PSO1

PO/PSO	Justification
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PSO1	Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments

CO5: Ability to implement various clustering algorithms (Applying)

Mapped POs & PSOs (Direct):PO2, PO4, PO5, PSO1

PO/PSO	Justification
PO2	Apply engineering fundamentals.
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Discuss limitations and validate tools, techniques and resources.
PSO1	Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments

CO6: Ability to illustrate the different mining algorithms with numerical (Applying)

Mapped POs & PSOs (Direct):PO2, PO3,PSO1

PO/PSO	Justification
PO2	Apply engineering fundamentals.
PO3	Able to perform systematic evaluation of the degree to which several design concepts meet the criteria.
PSO1	Apply the knowledge of Computer Science and Engineering in various domains like networking and data mining to manage projects in multidisciplinary environments

II. TEACHING-LEARNING METHODOLOGY ADOPTED

1. Chalk and Talk
2. Group Tasks / Assignments
3. PowerPoint Presentation
4. Quiz/ Moodle based Quiz



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Class/Sem: IV - Year B.E / AI & DS Status of Syllabus Completion

Name of Class co-ordinator: M.V.D.S. Krishna Murthy Section: AI & DS Department: AI & DS
Syllabus Status as on Date: 06/12/2023

S. No.	Course/Subject	Name of Faculty	Total No. of classes taken till date	Unit & % Completed	No. of extra classes required (excluding scheduled classes)	Remarks	Sign
1	Deep Learning (PC 701 AD)	K. Radhika.	15	1 completed II - running	4 clars.	—	
2	Mining of Massive Datasets (PC 702 AD)	Mr. Harika.	16	I, II units completed.	—	—	
3	Software Project Management (PC 703 AD)	M.V.D.S. Krishnamurthy	13	2 Unit 1A - 100% 3rd Unit - 80%	1 —	—	
4	PE - IV (Natural Language Processing)	Dr Syed Akshad	15	2nd unit - 80%	1 —	—	
5	DI - II (Start-up and Entrepreneurship)	Dr. N. Uday Kumar	15	2 Unit A - 100% 3rd Unit - 25%	1 —	—	
6	Deep Learning Lab (PC 751 AD)	K. Radhika.	6 labs (12 hours)	5 programs done.	—	—	
7	Mining of Massive Datasets Lab (PC 752 AD)	Mr. Harika.	6 labs (12 hours)	3 programs done.	—	—	
8	Project work (Phase-I)	Dr. P. Lavanya	34	Guided Project in progress	—	—	

Class Co-ordinator
Dept. of Computer Science
Methodist College of Engg. & Tech.
King Koll, Hyderabad

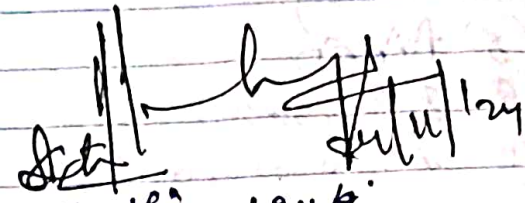
Head of the Department
Department of CSE
Methodist College of Engg. & Tech.
Abids, Hyderabad.

Principal
METHODIST COLLEGE OF ENGG. & TECH.
King Koll Road, Abids, Hyderabad

SC meeting

Members Present

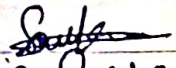
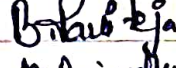
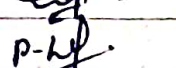
1. Dr. P. Laxman
2. Dr. G. Saritha
3. Dr. Shrutti SK
4. Sana Mateen
5. Umrati K
6. J. Sagar Babu
7. Dr. S. Khaleel Ahmed
8. T. Srikanth Shobith
9. Majthasi Gulam Muneer
10. J. Sowmya
11. Dr. Deva Rajasekhar
12. Dr. M. Krishnamurthy
13. Dr. T. Praveen Kumar
14. Dr. U. MOULACH
15. B. Vasavi Sravanthi
16. M. Aruna
17. Shaik Mohd Iqbal


 Shrutti 29/11/24
 Sana 29/11/24
 Umrati 29/11/24
 J. Sagar Babu 29/11/24
 Dr. S. Khaleel Ahmed 29/11/24
 T. Srikanth Shobith 29/11/24
 Majthasi Gulam Muneer 29/11/24
 J. Sowmya 29/11/24
 Dr. Deva Rajasekhar 29/11/24
 Dr. M. Krishnamurthy 29/11/24
 Dr. T. Praveen Kumar 29/11/24
 Dr. U. MOULACH 29/11/24
 B. Vasavi Sravanthi 29/11/24
 M. Aruna 29/11/24
 Shaik Mohd Iqbal 29/11/24

Student Representatives

Class

Sign

- | | | |
|--------------------|-----------------------------|---|
| (1) K. Sai Krishna | V th sem AIDS-A |  |
| (2) B. Ravi teja | V th sem AIDS-A |  |
| (3) Anirudh Kotla | IV th sem CSE-C |  |
| (4) Indira | III rd sem CSE-C |  |
| (5) P. Sini | V th sem AIDS-B |  |

(6) Lubnaa	III Sem	CSE-A	Lubna
(7) Pranay	III Sem	CSE-A	G. Raj
(8) Ashwin	V sem	CSE-A	Ashwin
(9) K. Ravindhar	IV sem	AI&DS-C	K. Ravindhar
10. A. Maheshwari	III sem	AI&DS-C	nd
11. Mohammed AFFAN	III Sem	AI&DS-A	AFFAN
12. K. Vinuthna Priya	III Sem	AI&DS-A	K. Priya
13. Syeda Hafsa Fatima	III Sem	AI&DS-B	Jhe
14. P. Abhinav Rao	III Sem	AI&DS-B	Abhinav
15. Md. Abdur Rasheed	III sem	CSE-B	A. Rasheed
16. V. Manisha	III sem	CSE-B	Manisha
17. K. Niharika	III Sem	CSM(AI&ML)	Niharika
18. Rajath V	III Sem	AI&ML	Rajath
19. H. Sai Raj	V th sem	CSE(B)	Sai Raj
20. R. Bhavani	V th sem	CSE(B)	R. Bhavani
21. M. Shubha	III rd sem	CSM(B)	M. Shubha
22. K. Ram Harsha	III rd sem	CSM(B)	K. Ram Harsha
23. R. Indu	III rd sem	CSM(A)	R. Indu
24. J. Vijith	III rd sem	AI&ML-(A)	J. Vijith
25. Dhruva Sharma	VII sem	CSE-A	Dhruva
26. Shaik Haleem Pasha	VII Sem	CSE-A	Shaik Haleem Pasha
27. SYED MUSTAFA A	VII sem	AI&DS-A	Syed Mustafa A