

NAGARJUNA GOVT DEGREE COLLEGE

(AUTONOMOUS)

NALGONDA



**CERTIFICATE COURSE ON “DATA MINING” TO
UNDERGRADUATE STUDENTS**

(FROM 13-10-2022 TO 24-10-2022)

2022-23

NAGARJUNA GOVT DEGREE COLLEGE : NALGONDA

DEPARTMENT OF COMPUTER SCIENCE
NAGARJUNA GOVT. DEGREE COLLEGE (A), NALGONDA.

Date: 11 OCT 2022

TO

The Principal,
NG College,
Nalgonda.

Respected Sir,

Sub: Dept. of COMPUTER SCIENCE- certificate course on
"DATA MINING" Undergraduate students"- seeking
Permission- req.reg..

With regards to the subject cited above SP VenkataRamana, contract lecturer of this department come up with a proposal to start certificate course on certificate course on "DATA MINING" I am here with forwarding the proposal consisting of syllabus and Learning outcomes targeted for this course. This course is for 12 days with both teaching and practical hours to the students.

Hence I am requesting you to accord permission to start the said course in this academic year.

Thanking you sir.

Yours faithfully,


Dept. of computer science
SP. VENKATA RAMANA
M.Sc., M.Phil, (Ph.D)
Head of the Department
Department of Computers
Nagarjuna Government College (A): Nalgonda.

DEPARTMENT OF COMPUTER SCIENCE
CERTIFICATE COURSE ON "DATA MINING" TO UNDERGRADUATE
STUDENTS

Curriculum of the course

S.No.	Name of the TOPIC	Days	Teaching Hours
1	Mining Methodology and User Interaction	1	2 Hours
2	Mining different kinds of knowledge in databases	1	1 Hours
3	Interactive mining of knowledge at multiple levels of abstraction	2	2 Hours
4	Incorporation of background knowledge	2	2 Hours
5	Data mining query languages and ad hoc data mining	2	2 Hours
6	Efficiency and scalability of data mining algorithms	2	2 Hours
7	Handling of relational and complex types of data	1	2 Hours
8	Presentation and visualization of data mining results	1	2 Hours
Total		12 days	20 hours

COURSE OVERVIEW:

- Different users may be interested in different kinds of knowledge.
- Therefore it is necessary for data mining to cover a broad range of knowledge discovery task..
- The data mining process needs to be interactive because it allows users to focus the search for patterns, providing and refining data mining requests based on the returned results.
- To guide discovery process and to express the discovered patterns, the background knowledge can be used. Background knowledge may be used to express the discovered patterns not only in concise terms but at multiple levels of abstraction.
- Once the patterns are discovered it needs to be expressed in high level languages, and visual representations. These representations should be easily understandable. The data cleaning methods are required to handle the noise and incomplete objects while mining the data regularities.
- If the data cleaning methods are not there then the accuracy of the discovered patterns will be poor. The factors such as huge size of databases, wide distribution of data, and complexity of data mining methods motivate the development of parallel and distributed data mining algorithms.
- These algorithms divide the data into partitions which is further processed in a parallel fashion. Then the results from the partitions is merged. The incremental algorithms, update databases without mining the data again from scratch.

COURSE OBJECTIVES:

Data Mining is defined as the procedure of extracting information from huge sets of data. In other words, we can say that data mining is mining knowledge from data.

- Data mining helps determine what kind of people buy what kind of products..
- Data mining helps in identifying the best products for different customers. It uses prediction to find the factors that may attract new customers.
- Data mining helps determine what kind of people buy what kind of products.
- Data mining helps in determining customer purchasing pattern.
- Data mining provides us various multidimensional summary reports.
- It involves cash flow analysis and prediction, contingent claim analysis to evaluate assets
- It involves summarizing and comparing the resources and spending.
- It involves monitoring competitors and market directions.

LEARNING OUTCOMES:

After Successful Completion of this Certificate Course The learner will be able to

- User can able to do metadata dictionary translates the query into the queries, appropriate for the individual heterogeneous site involved..
- Banks and financial institutions use data mining to predict and analyze various operations decisions. Such as portfolio management, predicting loan payments, credit scores, and lots more.
- The government uses data mining techniques to make policies for its citizens and make the best schemes for its citizens. The government uses many portals and sources to get the data for the data mining process.
- User can able to understand What are the objectives and outcomes of data mining process?
- Data mining has opened a world of possibilities for business.
- This field of computational statistics compares millions of isolated pieces of data and is used by companies to detect and predict consumer behavior.
- Its objective is to generate new market opportunities. Data mining converts information into knowledge.
- It helps companies gather reliable information.
- It's an efficient, cost-effective solution compared to other data applications.
- It helps businesses make profitable production and operational adjustments.
- Data mining uses both new and legacy systems.
- It helps businesses make informed decisions.
- Identifying high-value customers based on recent purchase data. Building a model using available customer data to predict the likelihood of churn for each customer. Assigning each customer a rank based on both churn propensity and customer value.


NOTICE

12 OCT 2022

All the Students are here by informed that the Department of computer science going to start a Certificate Course on "DATA MINING" from 13 OCT 2022 TO 24 OCT 2022. This Course aims to understand the students in data mining techniques. It consists of 12 teaching Hours and practical hours working days without overlapping with your academic schedule. Detailed schedule will be shared with the selected students.

Interested students are instructed to enroll your name for the course at SP venkataRamana contract lecturer in computer science by 12th oct 2022. If the enrolled students are more than 30 those who enrolled first will be shortlisted.


Head
Department of computer science


Principal

SP. VENKATA RAMANA
M.Sc., M.Phil, (Ph.D)
Head of the Department
Department of Computers
Nagarjuna Government College (A): Nalgonda

LIST OF STUDENTS ENROLLED :

S.No.	Name of the student	Class	Roll Number	Signature
1	K. Vma	2	210440284681120	Vma
2	M. Hima Bindhu	2	210440284681121	Hima Bindhu
3	K. Tejashwini	2	210440284681091	K. Tejashwini
4	B. Godhanjali	2	210440284681017	B. Godhanjali
5	CH. Jagruthy	2	210440284681047	CH. Jagruthy
6	Gr. Sindhu	2	210440284681075	Gr. Sindhu
7	D. Sri Harshini	2	210440284681054	D. Sri Harshini
8	D. Pravalika	2	210440284681055	D. Pravalika
9	Irfathunnisa	2	210440284681078	Irfathunnisa
10	Nivimala kumari	2	210440284681129	Nivimala kumari
11	M. Ragaveena	2	210440284681131	M. Ragaveena
12	Gr. Keerthi	2	210440284681066	Gr. Keerthi
13	J. Shivani	2	210440284681083	J. Shivani
14	Gr. Pujitha	2	210440284681084	Gr. Pujitha
15	Nabila Tasleem	2	210440284681126	Nabila Tasleem
16	M. Vinuthana	2	210440284681073	M. Vinuthana
17	P. Bhavani	2	210440284681165	P. Bhavani
18	M. Kavya	2	210440284681129	M. Kavya
19	V. Vrmila	2	210440284681151	V. Vrmila
20	T. Tejaswini	2	210440284681191	T. Tejaswini
21	P. Dhavani	2	210440284681160	P. Dhavani
22	S. Nandini	2	210440284681239	S. Nandini
23	J. Vamshi	2	210440284681226	J. Vamshi
24	K. Keerthi Priya	2	210440284681994	K. Keerthi Priya
25	K. Murali	2	210440284681221	K. Murali
26	K. Revanth	2	210440284681200	K. Revanth
27	B. Shiva Shankar	2	210440284681083	B. Shiva Shankar
28	E. Krishna Koushik	2	210440284681089	E. Krishna Koushik
29	Gr. Shirisha	2	210440284681092	Gr. Shirisha
30	K. Harika	2	210440284681090	K. Harika

Attendance of the students attended for Certificate Course on ""

S. N o.	Roll Number	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
			13/10	14/10	15/10	16/10	17/10	18/10	19/10	20/10	21/10	22/10	23/10						
1	1120	K. Uma	P	P	P	P	P	P	P	P	P	P	A						
2	1121	M. Hima Bindhu	A	P	P	P	P	P	P	P	P	P	P						
3	1091	K. Tejaswini	P	P	P	P	A	P	P	P	P	P							
4	1071	B. Brodhanjali	P	P	P	P	P	P	P	P	P	P							
5	1047	CH. Jagruthy	A	P	P	P	P	P	P	P	P	A							
6	1075	G. Sindhu	P	P	P	P	P	P	P	P	P	P							
7	1054	D. Sri Harshini	P	P	P	P	A	P	P	P	P	P							
8	1055	D. Pravalika	P	P	P	P	P	P	P	P	A	P							
9	1078	I. Ithathunnisa	P	P	P	P	P	P	P	P	P	P							
10	1129	Nirmala Kumari	P	A	P	A	P	P	P	P	P	A							
11	1131	M. Ragaveena	P	P	P	P	P	A	P	P	P	P							
12	1066	G. Keerthi	P	A	P	P	P	P	P	P	P	P							
13	1083	J. Shivani	P	P	P	P	P	P	A	P	P	P							
14	1084	G. Pujitha	P	P	P	A	P	P	P	P	P	P							
15	1126	Nabila Tasleem	P	A	P	P	P	P	P	P	P	P							
16	1073	M. Vinuthana	P	P	P	P	P	A	P	P	P	P							
17	11655	P. Bhavani	P	P	P	P	A	P	P	P	P	P							
18	1129	M. Kavya	A	P	P	P	P	P	P	P	P	A							
19	1160	V. Vymila	P	P	P	P	P	A	P	P	P	P							
20	1239	T. Tejasvini	P	A	P	P	P	P	P	P	P	P							
21	1226	P. Dhavani	P	P	P	P	P	P	A	P	P	P							
22	1994	S. Nandini	P	P	P	P	P	P	P	A	P	P							
23	1221	J. Vamshi	P	P	P	A	P	P	P	P	P	P							
24	1200	K. Keerthipriya	P	P	P	P	P	P	A	P	P	P							
25	1083	K. Murali	P	P	P	P	A	P	P	P	P	P							
26	1089	K. Revanth	P	P	P	P	P	P	P	P	P	A							
27	1092	B. Shivashankar	P	P	P	P	P	A	P	P	P	P							
28	1090	B. Shrinisha	P	P	P	P	P	P	P	P	A	P							

CERTIFICATE




NAGARJUNA GOVERNMENT COLLEGE (A),NALGONDA

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE OF APPRECIATION

This is to certify that _____ studying
_____ has participated and successfully finished Certificate course
on "DATA MINING" conducted by Department of computer science, Nagarjuna
Government College (A), Nalgonda from 13th OCT 2022 to 24th OCT 2022.

SP. VENKATA RAMANA
M.Sc., M.Phil, (Ph.D)
SP Venkata Ramana
Course Coordinator


PRINCIPAL