

## Department of Computer Science & Engineering

Final Year B. Tech. (CSE) - I : 2022-23  
5CS412 : PE5 - Data Mining

In Semester Evaluation (ISE)  
Mini-seminar / Presentation / Prototype-demo on topic assigned to each student.

Topic Sr.No.	Name of the Topic
1	Python and SQL Intersection in Analytics
2	Seaborn: a data visualization library for Python
3	Oracle Data Miner
4	Free and Open Source Business Intelligence Tools
5	Freeware Reporting tools for data mining
6	Keras python module
7	Plotly : quintessential graph plotting library for Python
8	SISENSE : BI Tool
9	Tableau Tool : Architecture & Demo
10	Python libraries for data mining
11	Statsmodels : Python module for statistics
12	SPSS Tool : Architecture & Demo
13	Business Intelligence in FinTech
14	Scikit Learn python module
15	TensorFlow python module
16	NetworkX python module for graph analysis
17	Python Libraries for Reporting and Factsheets
18	R-Programming for data mining (freeware/open source)
19	Exclusive Python frameworks for AI & ML application (web/desktop/mobile)
20	DEVis : Data Exploration and Visualization Tool
21	Top 5 Machine Learning Practices Recommended by Experts

22	7 Techniques to Handle Imbalanced Data
23	Comparison of R-Language with Python for AI & ML
24	How to Correctly Select a Sample From a Huge Dataset in Machine Learning
25	Serverless Machine Learning
26	PHENOMENAL DATA MINING: FROM DATA TO PHENOMENA
27	Inferring Structure in Semi structured Data.
28	Beyond Market Baskets: Generalizing Association Rules to Correlations
29	Query Flocks: An Extension to Association-Rule Mining
30	Scalable Techniques for Mining Causal Structures
31	Enhancing the expressiveness of query languages by embedding "mining" functions in SQL
32	Massive parallelism of data mining algorithm using Python.
33	Scalable Data Mining Systems for Analyzing Real-Time Data in Python
34	MySQL Data Mining
35	DataMelt : Open source software for data analysis and data visualization
36	Weka Data Mining Tool : Architecture and Algorithms
37	Weka Data Mining Tool : Installation and demonstration
38	Google Analytics
39	RapidMiner (formerly known as YALE) tool (freeware/open source)
40	Orange data mining tool (freeware/open source)
41	KNIME : Data Warehousing tool (freeware/open source)
42	PSPP : Data Mining tool (freeware/open source)

43	NLTK : Data Mining tool (freeware/open source)
44	jHepWork : Data Mining tool (freeware/open source)
45	Rattle : Data Mining tool (freeware/open source)
46	Data Analytics With Python: Use Case Demo

**Presentations from 31/10/2022 to 09/11/2022**  
(During lecture / Lab Hours randomly)

**Allotment of topics**

PRN	Topic Sr.No.	PRN	Topic Sr.No.	PRN	Topic Sr.No.	PRN	Topic Sr.No.
2017BTECS00009	6	2019BTECS00019	11	2019BTECS00056	18	2019BTECS00086	32
2017BTECS00098	24	2019BTECS00022	28	2019BTECS00057	29	2019BTECS00090	42
2018BTECS00009	33	2019BTECS00023	10	2019BTECS00059	17	2019BTECS00091	30
2018BTECS00103	5	2019BTECS00025	17	2019BTECS00060	38	2019BTECS00095	33
2018BTECS00108	43	2019BTECS00028	44	2019BTECS00067	31	2019BTECS00098	19
2019BTECS00002	4	2019BTECS00041	9	2019BTECS00068	45	2019BTECS00099	12
2019BTECS00003	25	2019BTECS00042	37	2019BTECS00072	16	2019BTECS00102	32
2019BTECS00006	2	2019BTECS00043	27	2019BTECS00073	25	2019BTECS00103	20
2019BTECS00007	3	2019BTECS00044	8	2019BTECS00074	39	2019BTECS00106	40
2019BTECS00008	34	2019BTECS00045	5	2019BTECS00075	15	2019BTECS00107	21
2019BTECS00009	3	2019BTECS00046	38	2019BTECS00077	9	2019BTECS00108	35
2019BTECS00011	2	2019BTECS00047	7	2019BTECS00078	14	2019BTECS00111	22
2019BTECS00013	26	2019BTECS00049	1	2019BTECS00079	34	2019BTECS00113	41
2019BTECS00014	18	2019BTECS00052	12	2019BTECS00080	19	2019BTECS00114	46
2019BTECS00016	1	2019BTECS00053	36	2019BTECS00083	46	2020BTECS00205	23
2019BTECS00017	35	2019BTECS00054	20	2019BTECS00084	13	2020BTECS00212	31

**Rubrics**

Activity	Marks
Material / literature survey	6
Understanding of topic	6
Presentation	4
Question / Answer	4
<b>Total ISE Marks</b>	<b>20</b>

***Instructions :***

1. Each student will do this work independently.
2. For some of repeated/same topic, each student will take different content. No overlap/copy will be allowed.
3. For each topic, search on web, download relevant material and study.
4. **Prepare video recording of presentation for 5-6 minutes.**
5. All soft copy submission should be uploaded to your respective login ID on ***http://10.10.16.15/submission*** (*within campus*) in “ISE” tab.
6. Upload should contains soft copies of
  - a. all downloaded/refer materials [no setup of any s/w].
  - b. Write-up / Report
  - c. presentation ppt
  - d. Video recording of presentation in MP4 format (5-6 minutes)
7. **Not uploading of s/w copies on submission portal will treat as ABSENT & NULL ISE (0 marks)**

Date : 30/09/2022

Dr. B. F. Momin  
Course Teacher