



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Requisition Letter

Date: 25.06.2018

From

The HOD,
Department of Mechanical Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

To

The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.


Respected Sir,

Sub: Requisition for conducting Value added course – reg.

School of Mechanical Sciences has planned to conduct Value added course entitled “Data Management” from 16/07/2018 to 23/07/2018. In this regard we kindly request you to grant permission for the same.


HOD/MECH

Thanking You


Dean Engineering
DEAN (Engineering)
Bharath Institute of Science & Technology
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Selaiyur, Chennai-600 073.



Date: 25.06.2018

Department of Mechanical Engineering

Circular

The Department of Mechanical Engineering, BIHER is glad to conduct five days value added course entitled “*Data management*” from 16.07.2018 to 23.07.2018 for 30 hours. Those who are interested to participate do register your name to the program coordinator.

The registered students must attend all the classes without fail. Students who have completed the course successfully with good score will get the course completion certificate from the institute/Department.

Resource person: Mr.S.Thirumavalavan and Mr.S.Nakkeeran

Maximum no. of registration allowed – 60.

Program coordinator


Mr.V.P.Durairaj


Mr.R J Golden Renjith Nimal



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Department of Mechanical Engineering

Skill Development on Data Management

Data Management

Objective

To equip students with cutting edge knowledge about processes to capture, store, retain and extract data in modern corporations = to equip students with the basics of SQL and associated data extraction languages

Module 1 (5 Hours)

RDBMS Concepts - Tables, Rows, Fields, Data Types - Data Normalization - Database design - Create, Alter and Drop Database - Create, Alter and Drop Table

Module 2 (8 Hours)

Data Loading - Inserting Records Update/Modify Data - Select queries - Aggregations - Joins - Inner/Outer - Built-In functions - Create and use Views - Temporary Tables - Unions - Subqueries/Nested queries - Performance Tuning

Module 3 (12 Hours)

What is Data Warehousing? - Types of Data Warehouse - General Stages in Data Warehouse - Importance of Data Warehouse in Enterprises - Characteristics of Data Warehouse - Components of Data Warehouse - Data Warehouse Terminology and Concepts - Three-tier Architecture - Data Warehouse Best Practices - Process Overview - Steps in ETL - ETL Tools - Overview - ETL vs ELT

Module 4 (15 Hours)

Data Models - Concepts, Overview - Introduction to OLAP - Types of OLAP Systems
Basic Analytical Operations in OLAP - OLTP vs OLAP - Differences - Elements of Dimensional Data Model - Steps of Dimensional Modelling - Types of Schema - What is a Data Mart? - Need for a Data Mart

- Types of Data Mart - Implementation Steps - Data Mart Vs Data - Warehouse - Differences - What is a Data Lake - Necessity of a Data Lake - Key Concepts of Data Lake - Data Lake vs Data Warehouse - What is BI? - Importance of BI - DW and BI Tools today



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Department of Mechanical Engineering

One Week Value added Program on Data Management 16th July to 23th July 2018

Date	Morning Session (9 AM – 12 PM)	Afternoon Session (1:30 PM – 3:30 PM)
16 – 07 – 2018 (Monday)	Program Inauguration Mr.S.Thirumavalavan RDBMS Concepts - Tables, Rows, Fields, Data Types - Data Normalization - Database design - Create, Alter and Drop Database - Create, Alter and Drop Table	Mr.S.Nakkeeran To equip students with cutting edge knowledge about processes to capture, store, retain and extract
17 – 07 – 2018 (Tuesday)	Mr.S.Nakkeeran extract data in modern corporations = to equip students with the basics of SQL and associated data extraction languages.	Mr.S.Thirumavalavan Concepts - Tables, Rows, Fields, Data Types - Data Normalization - Database design - Create, Alter and Drop Database - Create, Alter and Drop Table
18 – 07 – 2018 (Wednesday)	Mr.S.Thirumavalavan Data Loading - Inserting Records Update/Modify Data - Select queries -Aggregations - Joins - Inner/Outer - Built-In functions - Create and use Views - Temporary Tables - Unions - Subqueries/Nested queries	Mr.S.Nakkeeran What is Data Warehousing? - Types of Data Warehouse - General Stages in Data Warehouse - Importance of Data Warehouse in Enterprises - Characteristics of Data Warehouse - Components of Data
19 – 07 – 2018 (Thursday)	Mr.S.Nakkeeran Temporary Tables, Rows, Fields, Data Types - Data Normalization - Database design - Create, Alter and Drop Database - Create, Alter and Drop Table temporary tables are there	Mr.S.Thirumavalavan Warehouse - Components of Data Warehouse - Data Warehouse Terminology and Concepts - Three-tier Architecture - Data Warehouse Best Practices - Process Overview - Steps in ETL
20 – 07 – 2018 (Friday)	Mr.S.Thirumavalavan Necessity of a Data Lake - Key Concepts of Data Lake - Data Lake vs Data Warehouse - What is BI? - Importance of BI - DW and BI Tools today	Mr.S.Nakkeeran Basic Analytical Operations in OLAP - OLTP vs OLAP - Differences - Elements of Dimensional Data Model - Steps of Dimensional Modelling - Types of Schema - What is a Data Mart? - Need for a Data
23 – 07 – 2018 (Monday)	Mr.S.Nakkeeran - Implementation Steps - Data Mart Vs Data - Warehouse - Differences - What is a Data Lake - Necessity of a Data Lake - Key Concepts of Data Lake - Data Lake vs Data Warehouse - What is BI? - Importance of BI - DW and BI Tools today	Mr.S.Thirumavalavan General Stages in Data Warehouse - Importance of Data Warehouse in Enterprises - Characteristics of Data Warehouse - Components of Data

Program Coordinator:

Mr.V.P.Durairaj Mr.R J Golden Renjith Nimal

Assistant Professor,

E-Mail: vpdurairaj57@gmail.com

goldenrenjith.mech@bharathuniv.ac.in



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FEEDBACK FORM

- ❖ As part of a continuing improvement process, our college appreciates suggestions and inputs regarding the institution. We request you to sincerely answer these questions under assurance of complete confidentiality. Your interest in making our institution better is greatly appreciated.

Name of Department : Mechanical Engineering

Date : 02/07/2018

Event / Speaker Name : Data Management

- Please rate the session on the scale indicated. Your comments are most appreciated.

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	The Topic					
	The choice of topic was relevant to me				✓	
2.	The Lecturer / Speaker					
	Self-confidence					✓
	Communication skills					✓
	Doubts/ queries were answered satisfactorily				✓	✓
3.	The Content (Topic)					
	Refers to latest developments in the field					✓
	Career oriented				✓	✓
	Innovative learning, if any					✓

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
				✓

- Comments (If any):

More Course Needed



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Date : Data Management

Event / Speaker Name : 2.07.2018

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1.	The Topic				/	
	The choice of topic was relevant to me			/		
2.	The Lecturer / Speaker					
	Self-confidence			/		
	Communication skills			/		
	Doubts/ queries were answered satisfactorily				/	
3.	The Content (Topic)					
	Refers to latest developments in the field				/	
	Career oriented			/		
	Innovative learning, if any			/	/	

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
		/		

- Comments (If any):

Very informative for this
type of value added courses



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	Communication skills				/	
	Doubts/ queries were answered satisfactorily					/
3.	The Content (Topic)					/
	Refers to latest developments in the field				/	
	Career oriented					/
	Innovative learning, if any				/	/

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding

- Comments (If any):

More course Needed

Bharath Institute of Higher Education and Research

CERTIFICATE OF PARTICIPATION

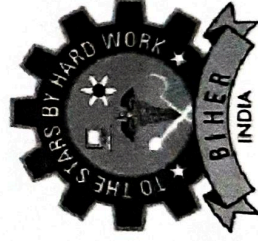
This certificate goes to

R. Parthiban

for successfully completing the Value Added Course on
"DATA MANAGEMENT" conducted by the School of
Mechanical Engineering during the month of July 2018.

VJ

VAC CO-ORDINATOR



HOD MECHANICAL



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Attendance sheet

S.No	Name	Register No.	Department
1	ABDULKALAM B	U15ME001	Mechanical Engineering
2	AJAY YADAV	U15ME009	Mechanical Engineering
3	ALTAF HUSAIN	U15ME015	Mechanical Engineering
4	ANKIT PAL	U15ME019	Mechanical Engineering
5	AVULA GURUNATH	U15ME033	Mechanical Engineering
6	AVULA SAIRAM	U15ME034	Mechanical Engineering
7	BADAGALA RAVITEJA	U15ME035	Mechanical Engineering
8	BALAJI S	U15ME036	Mechanical Engineering
9	DONTHINA MOHAN VENKAT .	U15ME055	Mechanical Engineering
10	ESAKKI P	U15ME057	Mechanical Engineering
11	GEESURU AKSHITH REDDY .	U15ME063	Mechanical Engineering
12	GEORGE VINSER A	U15ME064	Mechanical Engineering
13	GIMKALA NAVEEN KUMAR .	U15ME065	Mechanical Engineering
14	HARI HARAN J	U15ME080	Mechanical Engineering
15	JAINU SAI RAM .	U15ME081	Mechanical Engineering
16	JAVID AMEEN A	U15ME083	Mechanical Engineering
17	JAYVIMALRAJA P R	U15ME085	Mechanical Engineering
18	JOHNSON J J	U15ME088	Mechanical Engineering
19	chaithu CHAITANYA	U15ME117	Mechanical Engineering
20	MADDI SRIRAGHU VAMSI .	U15ME118	Mechanical Engineering
21	MADHANRAJ T	U15ME119	Mechanical Engineering
22	MAJJI RAVITEJA	U15ME120	Mechanical Engineering
23	MD AFROZ ALAM	U15ME131	Mechanical Engineering
24	MD ANAYATHULLAH AFSAR	U15ME132	Mechanical Engineering
25	MD ARMAN KHAN .	U15ME133	Mechanical Engineering
26	MD ASIF IQUBAL .	U15ME134	Mechanical Engineering
27	MD JAHANGIR KHNA .	U15ME135	Mechanical Engineering
28	MEKALA VENKATESH	U15ME136	Mechanical Engineering
29	MRIGEN ROY	U15ME147	Mechanical Engineering
30	MUNGARA MADINI BABU .	U15ME150	Mechanical Engineering
31	MURUGESAN M	U15ME151	Mechanical Engineering
32	NARALA MANOHAR REDDY .	U15ME154	Mechanical Engineering
33	NAVNISH KUMAR SRIVASTAV	U15ME161	Mechanical Engineering
34	NEELAM RAJ KUMAR .	U15ME162	Mechanical Engineering
35	PARANI SUNDAR L	U15ME169	Mechanical Engineering

36	PARIPALLI SWAMY	U15ME170	Mechanical Engineering
37	PARTHIBAN R	U15ME171	Mechanical Engineering
38	PRANAV HEMACHANDRAN	U15ME178	Mechanical Engineering
39	PRANAV J	U15ME179	Mechanical Engineering
40	PRATIK KUMAR .	U15ME180	Mechanical Engineering
41	PRAVEEN RACKSON R	U15ME181	Mechanical Engineering
42	PRAVIN KUMAR V	U15ME182	Mechanical Engineering
43	KAMESH R	U15ME707	Mechanical Engineering
44	SELWYN SIMMONS J	U15ME708	Mechanical Engineering
45	RAGHUL S	U15ME190	Mechanical Engineering
46	RAHUL ROY	U15ME191	Mechanical Engineering
47	RAVI KUMAR V	U15ME202	Mechanical Engineering
48	SATHISHKUMAR S	U15ME211	Mechanical Engineering
49	VISWESWARA REDDY S	U15ME212	Mechanical Engineering
50	SABEEL BASHA M	U15ME213	Mechanical Engineering
51	AJITH S	U15MT001	Mechatronics Engineering
52	BALAJI N	U15MT002	Mechatronics Engineering
53	INAYAT ULLA RABBANI	U15MT003	Mechatronics Engineering
54	INAYATHULLA A	U15MT004	Mechatronics Engineering
55	ABHIJIT ARYA	U15AM001	Automobile Engineering
56	ABISHEK RAJAGOPAL	U15AM002	Automobile Engineering
57	ASWIN S	U15AM004	Automobile Engineering
58	BHARANIDHARAN C	U15AM005	Automobile Engineering



Bharath Institute of Higher Education and Research

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Chennai - 600 073

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INTERNAL QUALITY ASSURANCE CELL (IQAC)

DOCUMENTS SUBMISSION FORM

Date of Submission	14-08-2018
Type of Documents	Value Added Course Program Report
Description	Design Fundamentals
Enclosures	a) Requestion Letter
	b) Circular
	c) Curriculum
	d) Schedule
	e) Attendance sheet
	f) Feedback form
	g) Certificate
	h) Image
No. of Pages	13
Submitted By	Name : Mr. S. Thirumavalavan
	Designation : Asst Professor
	Department : Mechanical
	Signature :

For Office Use Only

Verified By:	Dr. N. S. SENTHUR	Sign:	Date: 17.08.2018
Uploaded By:		Sign:	Date:
File Name:			

IQAC - BIHER