

AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOMEDICAL ENGINEERING

Event Report – Value Added Course on “VA192 – Introduction to WEKA” – 03.10.2023

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Name of the Event	Value Added Course on “VA192 – Introduction to WEKA”
Date & Time	03.10.2023 – 9.00am
Guest Speaker	Dr. Prasath Alias Surendhar Associate Professor Biomedical Engineering (BME) Aarupadai Veedu Institute of Technology (AVIT) Ms. Lakshmi Shree.B Assistant Professor Biomedical Engineering (BME) Aarupadai Veedu Institute of Technology (AVIT)
Total Participants	47 Students
Organised By	Department of Biomedical Engineering
Mode	Offline

REPORT FOR VALUE ADDED COURSE

INTRODUCTION TO WEKA

Objective:

The Value Added Course titled "Introduction to WEKA" aimed to provide participants with a comprehensive understanding of WEKA, a versatile suite of machine learning software, and its applications in biomedical image data analysis. The course focused on equipping participants with practical skills in pre-processing biomedical image data, clustering, attribute selection, building classifiers for bio-images, and discovering associations within the data.

Speakers:

Dr. Prasath Alias Surendhar

Designation: Associate Professor

Department: Biomedical Engineering (BME)

Institution: Aarupadai Veedu Institute of Technology (AVIT)

Ms. Lakshmi Shree.B

Designation: Assistant Professor

Department: Biomedical Engineering (BME)

Institution: Aarupadai Veedu Institute of Technology (AVIT)

Program Schedule:

Program Overview:

The program commenced with an introductory session led by Dr. Prasath Alias Surendhar and Ms. Lakshmi Shree.B, providing participants with an overview of WEKA and its significance in biomedical image data analysis. The session emphasized the importance of pre-processing techniques in preparing bio-image data for further analysis.

Subsequent sessions focused on practical aspects of clustering techniques and attribute selection within WEKA. Participants were guided through hands-on exercises, gaining insights into clustering algorithms and feature selection methods tailored to biomedical image datasets.

Further, program delved into building classifiers for bio-images using WEKA, where participants learned to apply various classification algorithms to classify and analyze biomedical images effectively. The session also covered association mining techniques,

enabling participants to discover meaningful associations and patterns within biomedical data.

The program concluded with a practical session allowing participants to apply the concepts learned throughout the course. A comprehensive Q&A session provided participants with an opportunity to clarify doubts and engage in insightful discussions with the speakers.

Participant Feedback:

Participant feedback was overwhelmingly positive, with many expressing appreciation for the practical nature of the course and the expertise of the speakers. Some common feedback points included:

- Clear explanations of complex concepts related to WEKA and biomedical image data analysis.
- Engaging hands-on sessions that facilitated active learning and skill development.
- Practical relevance of the course content to participants' academic and research interests.
- Interactive Q&A sessions that encouraged participation and knowledge sharing.

Conclusion:

The Value Added Course on "Introduction to WEKA" successfully equipped participants with practical skills and knowledge in utilizing WEKA for biomedical image data analysis. The program, led by Dr. Prasath Alias Surendhar and Ms. Lakshmi Shree.B, provided valuable insights into pre-processing techniques, clustering, attribute selection, classifier building, and association mining within the context of bio-image analysis. The organizers extend their gratitude to the speakers for their invaluable contributions and to all participants for their active participation and enthusiasm throughout the program.



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**DEPARTMENT OF BIOMEDICAL ENGINEERING
VALUE ADDED COURSE**

Course Code : VA192 **Duration : 16 Hours**
Course Name : INTRODUCTION TO WEKA **Commencement : August 2023**

Course Content

**Pre-Processing Biomedical Image
Data
Clustering Data
Attribute Selection**

**Building Classifier Bio-image
Finding Associations**

LAST DATE FOR ENROLLMENT: 15.08.23

COURSE IS ABSOLUTELY FREE

For Details Contact :
Dr. Prasath S.
Associate Professor
Department of Biomedical Engineering
Mobile: 8754581937
Email: prasath.bme@avit.ac.in

Aarupadai Veedu Institute of Technology
Vinayaka Mission's Research Foundation
(Deemed to be University)
Address: Vinayaka Nagar, Old Mahabalipuram Road,
Paianoor, Chengalpattu District, Chennai- 603
104, Tamil Nadu, India.



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Cordially invites you all for the

Value added Course on
VA192-Introduction to
WEKA

📅 03.10.2023

📍 TBL-105 (Smart Room)

Resource Persons



Ms. Lakshmi Shree B
Assistant Professor
BME - AVIT



Dr. S. Prasath Alias Surendhar
Associate Professor
BME - AVIT

Organised by: Department of Biomedical Engineering



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A Grade by NGA



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CIRCULAR

Ref No:2023-2024/ODD/VAC/03

Date:14.09.2023

The Department of Biomedical Engineering is conducting a Value-Added Course on “**VA192-INTRODUCTION TO WEKA**” from 03.10.2023 to 11.10.2023. All the second and third year students of Biomedical Engineering are requested to register and attend the course.

The invitation is herewith attached.

HOD

Circulated to:	1. All the faculty members 2. All the students
Copy to	1. Principal Office 2. Department Notice Board



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VALUE ADDED COURSE TITLE : INTRODUCTION TO WEKA
VALUE ADDED COURSE CODE : VA192
FACULTY : ENGINEERING AND
TECHNOLOGY
COURSE HOURS : 16

COURSE CONTENT

- Chapter-I: Pre-Processing Biomedical Image Data.** **3hrs**
File Conversion, Opening File from a Local File System & Website, Reading Data from a Database, Pre-Processing Window & Setting Filters.
- Chapter-II: Building "Classifiers Bio Images".** **3hrs**
Choosing a Classifier, Setting Test Options, Analysing Results, Visualization of Results, Classification Exercise
- Chapter-III: Clustering Data.** **2hrs**
Clustering Scheme, Setting Test Options, Bio Images Analysing Results, Visualization of Results, Clustering Exercise.
- Chapter-IV: Finding Associations** **2hrs**
Choosing Association Scheme, Setting Test Options, Analysing Results, Association Rules Exercise.
- Chapter-V: Attribute Selection** **3hrs**
Selecting Options, Analysing Results, Visualizing Results (Bio Images)
- Chapter-VI: Data Visualization** **3hrs**
Changing the View, Selecting Instances Bio Images



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DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSES

ACADEMIC YEAR : 2023-2024

VA192- INTRODUCTION TO WEKA

03.10.2023-11.10.2023

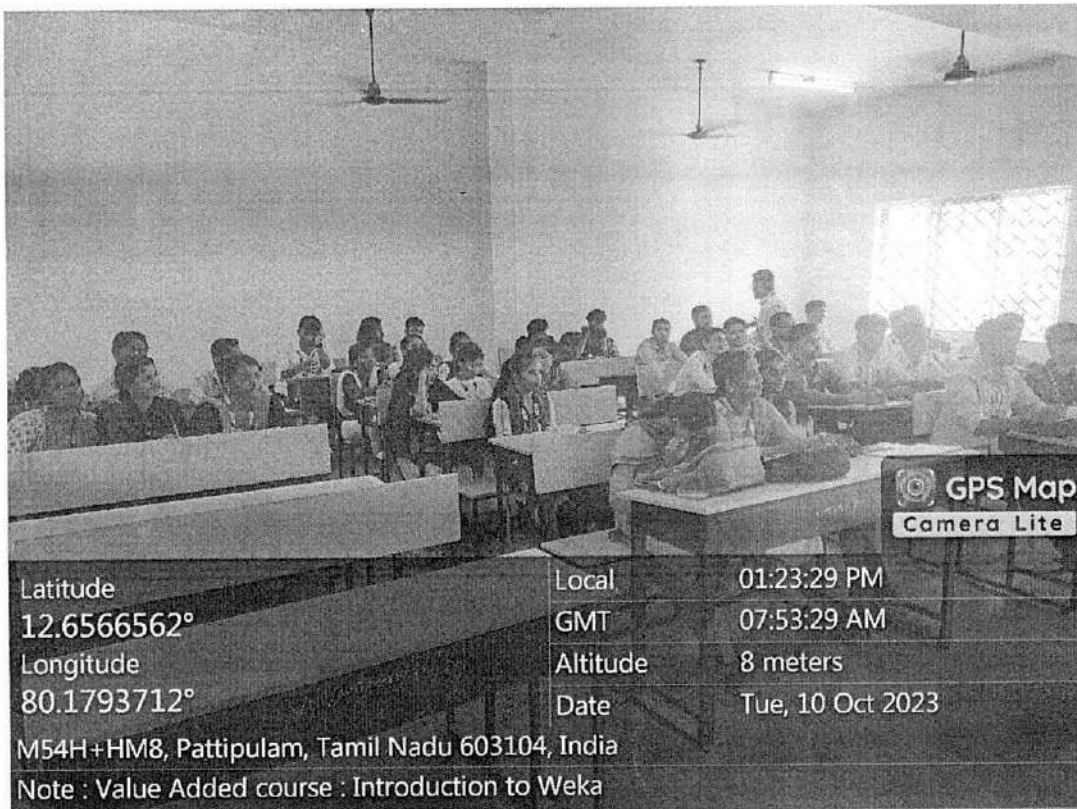
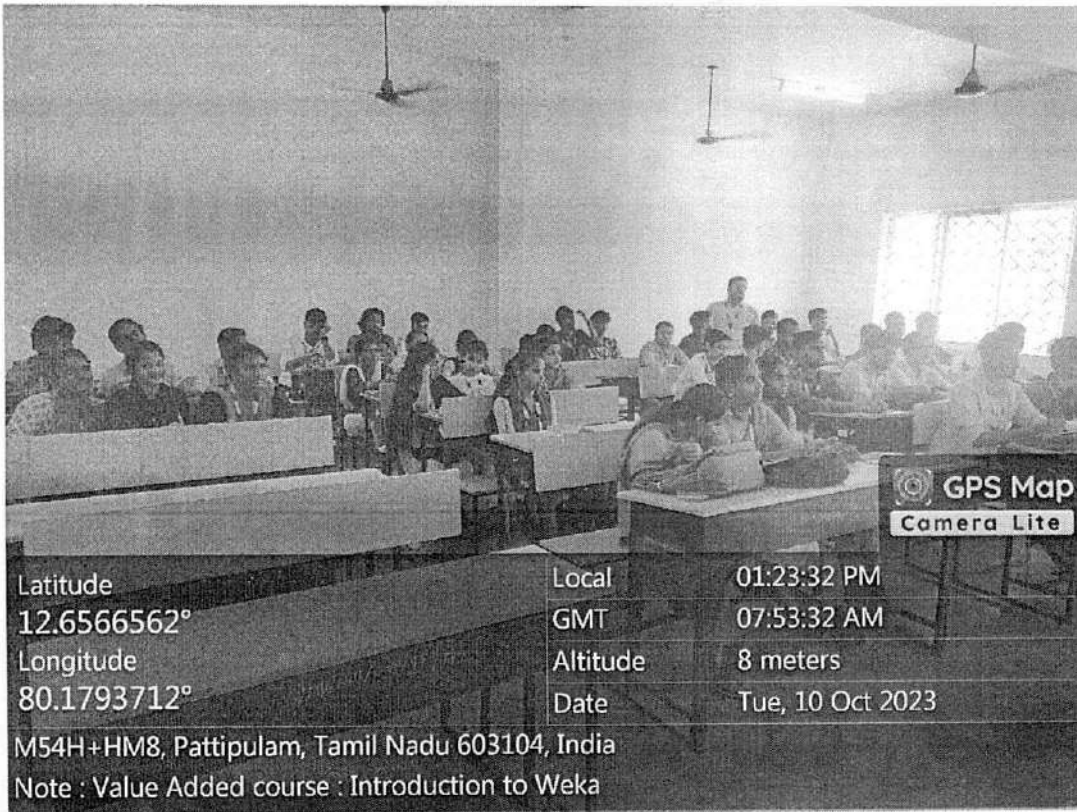
TIME TABLE

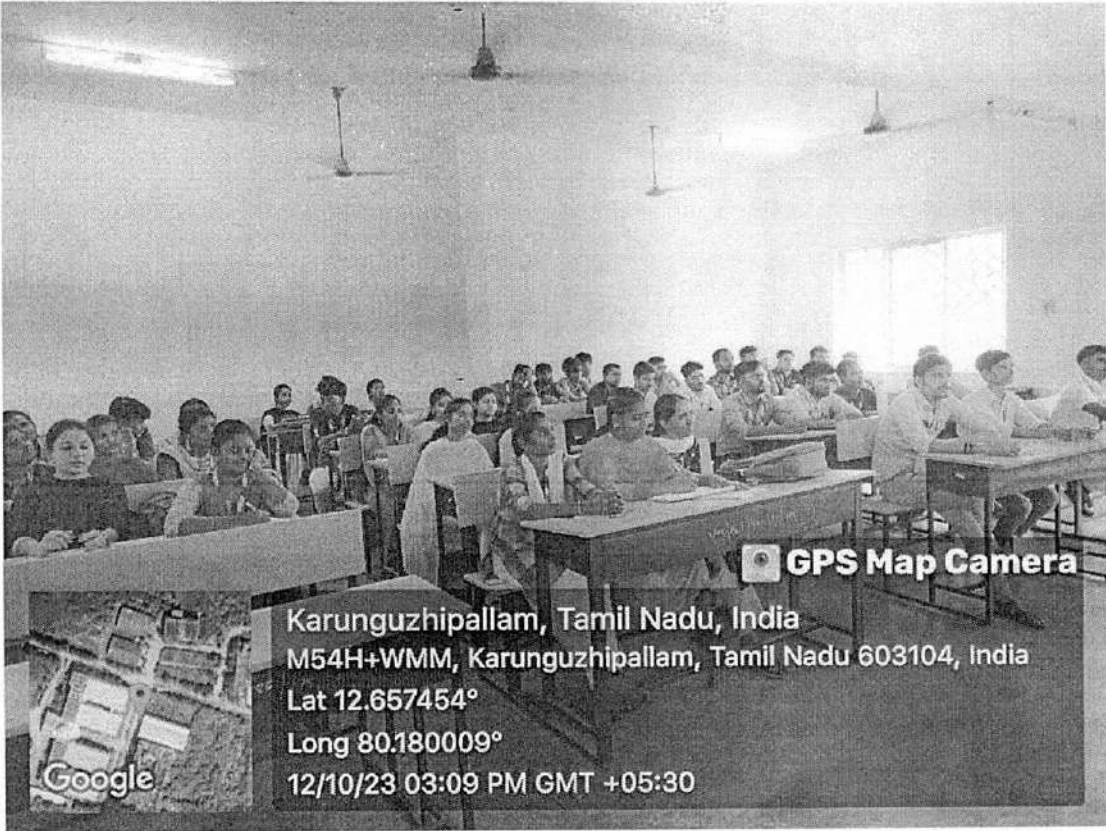
Date	Timings	Topics Covered	No of Hours
03.10.2023	3.30pm – 5.30pm	<ul style="list-style-type: none"> ➤ File Conversion, Opening File from a Local File System & Website, ➤ Reading Data 	2
04.10.2023	3.30pm – 5.30pm	<ul style="list-style-type: none"> ➤ Pre-Processing Window & Setting Filters ➤ Choosing a Classifier, Setting Test Options, Analysing Results 	2
05.10.2023	3.30pm – 5.30pm	<ul style="list-style-type: none"> ➤ Clustering Scheme, Setting Test Options ➤ Bio Images Analysing Results 	2
06.10.2023	3.30pm – 5.30pm	<ul style="list-style-type: none"> ➤ Clustering Exercise. ➤ Visualization of Results 	2
07.10.2023	09.00 am - 12.00 pm	<ul style="list-style-type: none"> ➤ Choosing Association Scheme, Setting Test Options analysing Results, Association Rules Exercise. 	3
10.10.2023	3.30pm – 6.00pm	<ul style="list-style-type: none"> ➤ Selecting Options, Analysing Results ➤ Visualizing Results (Bio Images) 	2.5
11.10.2023	3.30pm – 6.00pm	<ul style="list-style-type: none"> ➤ Changing the View ➤ Selecting Instances Bio Images 	2.5
TOTAL			16


VALUE ADDED CO-ORDINATOR

HEAD OF DEPARTMENT

STUDETNS TRAINING CLASS



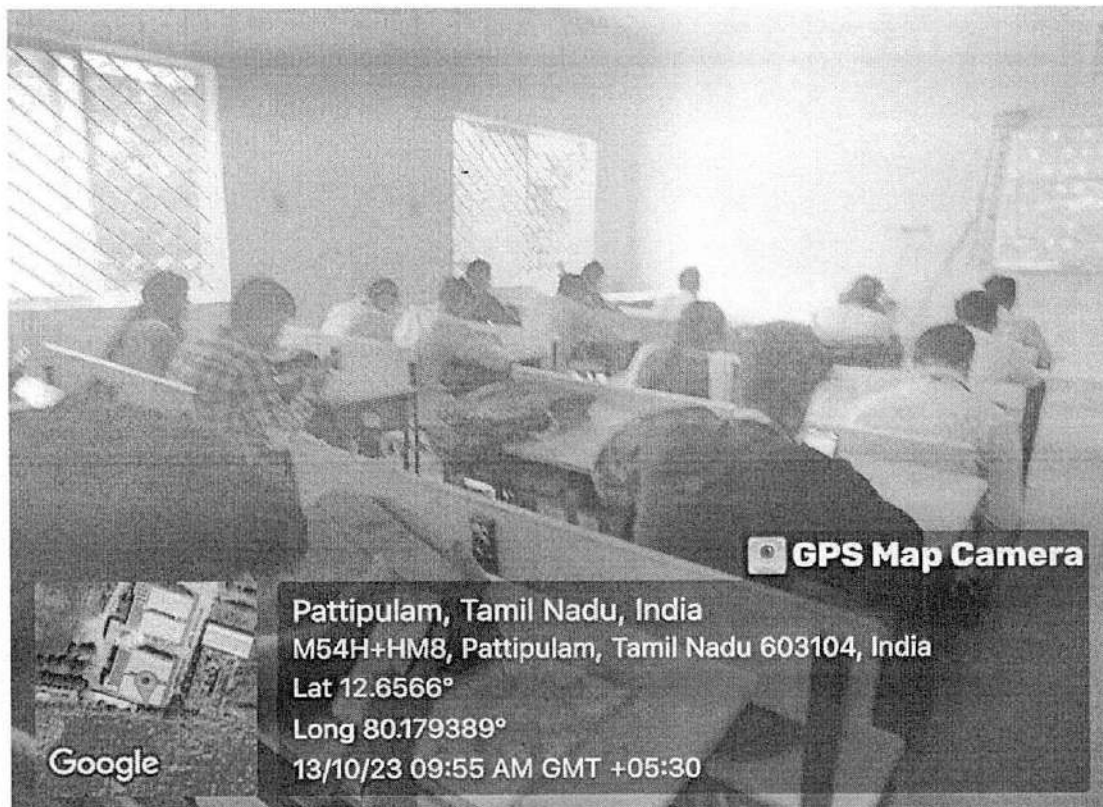
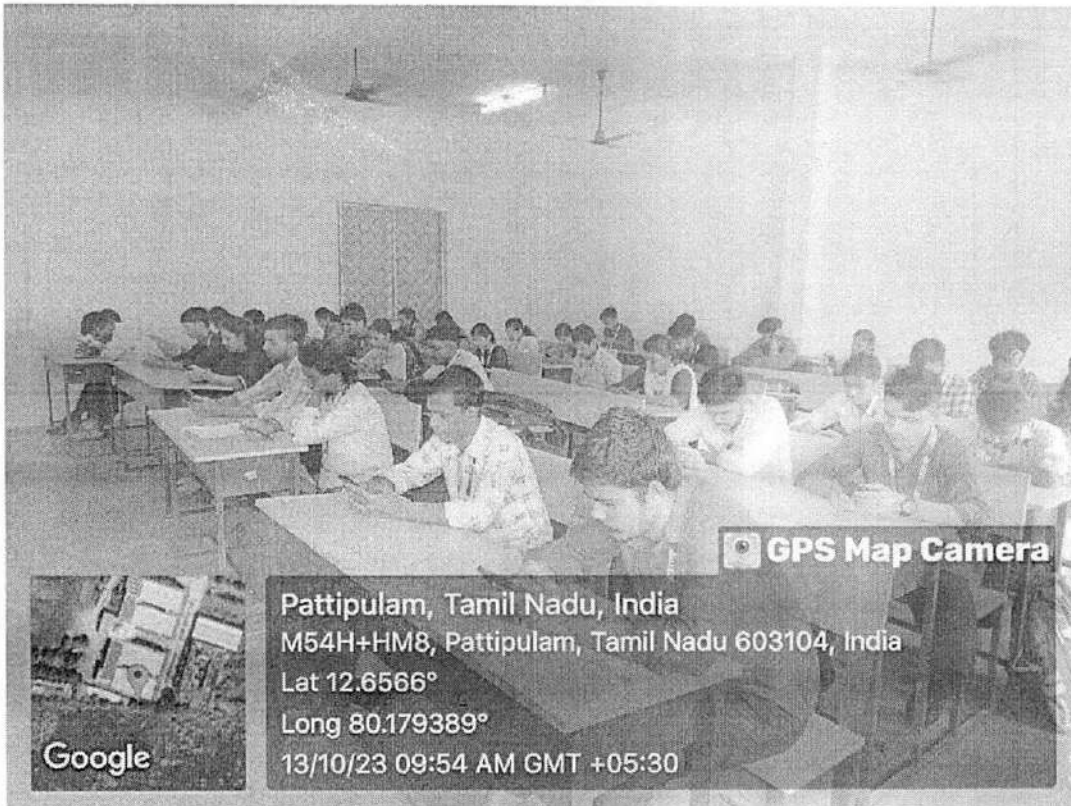


 **GPS Map Camera**

Karunguzhipallam, Tamil Nadu, India
M54H+WMM, Karunguzhipallam, Tamil Nadu 603104, India
Lat 12.657454°
Long 80.180009°
12/10/23 03:09 PM GMT +05:30



STUDETNS ATTENDING EXAMINATION





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DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSES

ACADEMIC YEAR : 2023-2024

VA192- INTRODUCTION TO WEKA

RESOURCE PERSONS

S.No	Resource Persons
1.	Dr.Prasath Alias Surendhar S. Associate Professor Department of Biomedical Engineering AVIT
2.	Ms.B.Lakshmi Shree Assistant Professor Department of Biomedical Engineering AVIT

COORDINATOR

HOD(BME/ECE)



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DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

ATTENDANCE PERCENTAGE

SL NO	REG NO	NAME	DEPARTMENT	ATTENDANCE PERCENTAGE
1	3532110501	AKSHAY KUMAR BISWAS	BME	100
2	3532110502	AMIT KUMAR	BME	100
3	3532110503	BIPIN KUMAR	BME	100
4	3532110504	DILIP KUMAR	BME	100
5	3532110506	DIVYA BHARATI	BME	100
6	3532110507	GUNASEELAN E	BME	85
7	3532110508	JITU KUMAR	BME	100
8	3532110509	MANOJ SAH	BME	100
9	3532110510	MD AFJAL ALAM	BME	100
10	3532110512	MD AMIR SUBHANI	BME	100
11	3532110513	MERLIN SWEETA S	BME	100
12	3532110515	RAJEEV KUMAR MANDAL	BME	100
13	3532110516	RANJAN KUMAR JAISWAL	BME	100
14	3532110517	RITHIGA S	BME	100
15	3532110518	SHIKHA SONI	BME	100
16	3532110519	SHYAM BIHARI	BME	100
17	3532110520	STUTI KUMARI	BME	100
18	3532110521	SUGASINI L	BME	100
19	3532110525	VISWANATHAN R	BME	85
20	3532110526	YOKESHWAR V	BME	80
21	3532220501	MOHAMMED FASIL A	BME	80
22	4713	KONDALA R DIVYA	BME	100
23	3532010501	AMRENDRA KUMAR SINGH	BME	100
24	3532010502	ANISH KUMAR	BME	100
25	3532010503	ANISH PRIYADARSHI	BME	100
26	3532010504	AREPALLI MADHURI	BME	90
27	3532010505	ASIF ALI	BME	100
28	3532010506	BALAJI S	BME	100
29	3532010508	HEMALATHA T	BME	100
30	3532010510	JAY KRISHAN YADAV	BME	100
31	3532010512	KRISHAN KUMAR	BME	80
32	3532010513	LOKESHWARAN S	BME	80
33	3532010515	MANISH KUMAR JHA	BME	100
34	3532010517	MEENA JAYASTRI R	BME	100
35	3532010518	MITHILESH KUMAR	BME	100
36	3532010522	NISHU KUMARI	BME	100
37	3532010523	NITESH KUMAR THAKUR	BME	90
38	3532010525	PONNARASAN M	BME	100
39	3532010526	PRAVEENA R	BME	100
40	3532010527	PRAVIN R	BME	100
41	3532010528	PREMALATHA A	BME	100
42	3532010529	PRIYADHARSHINI K	BME	100
43	3532010534	SHAFUDEEN S	BME	100
44	3532010536	SUSI M	BME	95
45	3532010538	VELMURUGAN C	BME	100

46	3531717508	JAYASRI R	BME	100
47	3531717523	VIJAYAKUMARI V	BME	100



COORDINATOR



HOD (BME/ECE)



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VALUE ADDED COURSE
MARK LIST

SL NO	REG NO	NAME	DEPARTMENT	TEST MARKS (100)
1	3532110501	AKSHAY KUMAR BISWAS	BME	65
2	3532110502	AMIT KUMAR	BME	80
3	3532110503	BIPIN KUMAR	BME	60
4	3532110504	DILIP KUMAR	BME	65
5	3532110506	DIVYA BHARATI	BME	75
6	3532110507	GUNASEELAN E	BME	55
7	3532110508	JITU KUMAR	BME	30
8	3532110509	MANOJ SAH	BME	80
9	3532110510	MD AFJAL ALAM	BME	55
10	3532110512	MD AMIR SUBHANI	BME	50
11	3532110513	MERLIN SWEETA S	BME	60
12	3532110515	RAJEEV KUMAR MANDAL	BME	90
13	3532110516	RANJAN KUMAR JAISWAL	BME	55
14	3532110517	RITHIGA S	BME	85
15	3532110518	SHIKHA SONI	BME	70
16	3532110519	SHYAM BIHARI	BME	85
17	3532110520	STUTI KUMARI	BME	85
18	3532110521	SUGASINI L	BME	40
19	3532110525	VISWANATHAN R	BME	35
20	3532110526	YOKESHWAR V	BME	55
21	3532220501	MOHAMMED FASIL A	BME	35
22	4713	KONDALA R DIVYA	BME	65
23	3532010501	AMRENDRA KUMAR SINGH	BME	50
24	3532010502	ANISH KUMAR	BME	30
25	3532010503	ANISH PRIYADARSHI	BME	90
26	3532010504	AREPALLI MADHURI	BME	50
27	3532010505	ASIF ALI	BME	75
28	3532010506	BALAJI S	BME	70
29	3532010508	HEMALATHA T	BME	80
30	3532010510	JAY KRISHAN YADAV	BME	55
31	3532010512	KRISHAN KUMAR	BME	50
32	3532010513	LOKESHWARAN S	BME	50
33	3532010515	MANISH KUMAR JHA	BME	40
34	3532010517	MEENA JAYASTRI R	BME	90
35	3532010518	MITHILESH KUMAR	BME	60
36	3532010522	NISHU KUMARI	BME	65
37	3532010523	NITESH KUMAR THAKUR	BME	80
38	3532010525	PONNARASAN M	BME	55
39	3532010526	PRAVEENA R	BME	50
40	3532010527	PRAVIN R	BME	85
41	3532010528	PREMALATHA A	BME	60
42	3532010529	PRIYADHARSHINI K	BME	85

43	3532010534	SHAFUDEEN S	BME	35
44	3532010536	SUSI M	BME	50
45	3532010538	VELMURUGAN C	BME	75
46	3531717508	JAYASRI R	BME	50
47	3531717523	VIJAYAKUMARI V	BME	50

TOTAL NO OF STUDENTS : 47
No. APPEARED : 47
No OF ABSENTEES : Nil
No. PASSED : 47
No. FAILED : 0
% OF PASSES : 100%
CLASS AVERAGE MARK : 62%


CO-ORDINATOR


HOD (BME/ECE)