



# **IDHAYA ENGINEERING COLLEGE FOR WOMEN**

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

**ACADEMIC YEAR**  
**2019 -20**



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

S.No	Name of the Add-on Course
1.	Introduction to Data Analytics for Business
2.	Problem Solving with Algorithms and Data Structures using Python
3.	Model Development Using Exploratory Analysis
4.	Artificial Intelligence and Statistical Machine Learning
5.	From Logic Gates to Processors
6.	AC Analysis
7.	IOT with Raspberry Pi
8.	Antenna Design Using HFSS
9.	Fundamentals of Industrial automation
10.	NPTEL Course on Developing Soft Skill and Personality

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE, F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT.**



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **INTRODUCTION TO DATA ANALYTICS FOR BUSINESS**



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/RL/2020

Date: 23.01.2020

## Requisition Letter

To

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through

Head of the Department,  
Department of Computer Science and Engineering.

Sub: Request for conducting a 30 hours Add-on Course.

Dear Sir,

I, Sr.C..Jansi Sophia Mary, Assistant Professor in the Department of Computer Science and Engineering, would like to conduct a 30 hours add-on Course with the objective of expose students to the data analytics practices executed in the business world. We will explore such key areas as the analytical process, how data is created, stored, accessed, and how the organization works with data and creates the environment in which analytics can flourish on "Introduction to Data Analytics for Business" from 31-01-2020, 01-02-2020 & 13,14,15-02-2020 for third year IT students. In this regards, I request you to give permission for the Course.

Thanking you sir.

Yours sincerely

*Mami*  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

*Sr.C. Jansi Sophia Mary*  
Sr.C. Jansi Sophia Mary.



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/CC/2020

Date: 23.01.2020

## Add-on Course-Syllabus

Name of the Course: **Introduction to Data Analytics for Business**

Academic Year: 2019-20

### Course Objectives:

This course will expose students to the data analytics practices executed in the business world. We will explore such key areas as the analytical process, how data is created, stored, accessed, and how the organization works with data and creates the environment in which analytics can flourish.

Topic-I	Introduction to Data & Analysis in Real World-Thinking about Analytical Problems-Conceptual Business Models-The information-Action Value Chain - The information-Action Value Chain - Real World Events and Characteristics- Data Capture by Source Systems	6
Topic-II	Introduction - Analytical Technologies-Data Storage and Databases-Big Data & the Cloud1- Virtualization, Federation, and In-Memory Computing-The Relational Database--Data Tools Landscape-The Tools of the Data Analyst	6
Topic-III	Introduction - Data Extraction Using SQL-Introduction to SQL-Aggregating and Sorting Data in SQL-Extracting Data from Multiple Tables-	6
Topic-IV	Stacking Data with UNION Command-Extending SQL Queries Using Operators-Using SQL Sub queries	6
Topic-V	Introduction to Real World Analytical Orgs-Analytical Organizations – Roles Analytical Organizations – Structures-Data Governance-Data Privacy Data Quality	6

**Total Hours** 30

*R. Gurumani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

**Course Outcomes:** The students able to decision makers in today's competitive business environment are complex. Achieve a clear competitive advantage by using data to explain the performance of a business, evaluate different courses of action, and employ a structured approach to business problem-solving. Check out a one-minute video about this specialization to learn more

Course Co-ordinator.

HOD

**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/CIR/2020

Date: 24.01.2020

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CIRCULAR

The Department of Computer Science and Engineering is offering "Introduction to Data Analytics for Business" as 30 hours add-on course for third year IT students from 31-01-2020, 01-02-2020 & 13,14,15-02-2020 for the academic year 2019-2020. Sr.C.Jansi Sophia Mary, Assistant Professor /CSE will coordinate this course. Interested students can enrol their name for the course with Sr.C..Jansi Sophia Mary.



HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. HOD( IT )
5. To circulate among the department staff members.
6. File.

CC To:

To read third year IT classes.



Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,

PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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**CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.**  
**Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.**

# **Add on Course**

## **on**

# **"Introduction to Data Analytics for Business"**

**31-01-2020, 01-02-2020 & 13,14,15-02-2020**

**Sr.C..Jansi Sophia Mary, Assistant Professor**

**Venue: LH-12**

**Participants: Third year IT Students**

**Course Objectives: This course will expose students to the data analytics practices executed in the business world. We will explore such key areas as the analytical process, how data is created, stored, accessed, and how the organization works with data and creates the environment in which analytics can flourish**

**Last Date Of Registration: 30.01.2020**

**Call: 04151-258 325**

**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,**  
**PRINCIPAL**  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/IT/SR/2019-20

Date: 30.01.2020

## Add-on Course

Name of the Course: **Introduction to Data Analytics for Business**

Academic Year: 2019-2020

Course Duration: 31-01-2020, 01-02-2020 & 13,14,15-02-2020 (30 hours)


Year/Dept.: III/IT

## Registered Students

S. No	Roll No.	Name
1.	621117205002	ACCELIA
2.	621117205003	AKSHAYA KA
3.	621117205004	ANANTHI S
4.	621117205005	ANUPRIYA C
5.	621117205006	ASHAMARY M
6.	621117205008	BHUVANESWARI B
7.	621117205009	CHANDHARALEKA J
8.	621117205010	HEMALATHA S
9.	621117205011	KANCHANA S
10.	621117205012	MANJULA S
11.	621117205013	MARY VALENTINA P
12.	621117205014	NANDHINI A
13.	621117205015	PRAVEENA V
14.	621117205017	PRIYADARSHINI D
15.	621117205018	PRIYANKA P
16.	621117205020	SHAHIKA PARWEEN.M
17.	621117205022	VAITHEESHWARI S

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/IT/SAL/2019-20

Date: 31.01.2020

## Add-on Course

Name of the Course: **Introduction to Data Analytics for Business**

Academic Year: 2019-2020


Course Duration: 31-01-2020, 01-02-2020 & 13,14,15-02-2020 (30 hours)

Year/Dept.: III/IT

## Students Attendance List

S. No	Roll No.	Name	31-01-2020	01.02.2020	13.02.2020	14.02.2020	15.02.2020
1.	621117205002	ACCELIA	/	/	/	/	/
2.	621117205003	AKSHAYA KA	/	/	/	/	/
3.	621117205004	ANANTHI S	/	/	/	/	/
4.	621117205005	ANUPRIYA C	/	/	/	/	/
5.	621117205006	ASHAMARY M	/	/	/	a	/
6.	621117205008	BHUVANESWARI B	/	/	/	/	/
7.	621117205009	CHANDHARALEKA J	/	/	/	/	/
8.	621117205010	HEMALATHA S	/	/	/	/	/
9.	621117205011	KANCHANA S	/	/	/	/	/
10.	621117205012	MANJULA S	/	/	/	/	/
11.	621117205013	MARY VALENTINA P	/	/	/	/	/
12.	621117205014	NANDHINI A	/	/	/	/	/
13.	621117205015	PRAVEENA V	/	/	/	/	/
14.	621117205017	PRIYADARSHINI D	/	/	/	/	/
15.	621117205018	PRIYANKA P	/	/	/	/	/
16.	621117205020	SHAHIKA PARWEEN.M	/	a	/	/	/
17.	621117205022	VAITHEESHWARI S	/	/	/	/	/

  
Course Co-ordinator

  
Dr.R.GURUMANI, M.E, Ph.D, M.B.A, M.ISTE, F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

  
HOD



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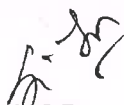
Ref: IECW/ECE /ER/2019

Date: 17.02.2020

## Event Report

Name of Activity: Add-on Course: <b>Introduction to Data Analytics for Business</b>			
Organized by: Department of Computer Science and Engineering			
Date: 31-01-2020, 01-02-2020 & 13,14,15-02-2020		Total Participants: 17	
Resource Person: Details			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Sr.C..Jansi Sophia Mary	Assistant Professor	Computer Science and Engineering IECW, Chinnasalem
<p>For the benefits of student's The Department of Computer Science and Engineering, Idhaya Engineering College for Women, Chinnasalem, conducted 30 hours Add-on Course on "Introduction to Data Analytics for Business" from 31-01-2020, 01-02-2020 &amp; 13,14,15-02-2020. Sr.C.Jansi Sophia Mary, Assistant Professor /CSE were the resource persons. The students from third year IT were actively attended the course. The Course ended with the outcome of the students able to decision makers in today's competitive business environment is complex. Achieve a clear competitive advantage by using data to explain the performance of a business, evaluate different courses of action, and employ a structured approach to business problem-solving. Check out a one-minute video about this specialization to learn more.</p>			

  
Course Co-ordinator

  
HOD

  
Principal

  
**Dr.R.GURUMANI**, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
PRINCIPAL  
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Email ID: idhaya@iecw.edu.in

Ref: IECW/IT/ML/2020

Date: 17.02.2020

## Add-on Course

Name of the Course: **Introduction to Data Analytics for Business**

Academic Year: 2019-2020

Course Duration: 31-01-2020, 01-02-2020 & 13, 14, 15-02-2020 (30 hours)

Year/Dept.: III/IT

## Mark List

S. No	Roll No.	Name	Marks 50
1.	621117205002	ACCELIA	43
2.	621117205003	AKSHAYA KA	40
3.	621117205004	ANANTHI S	38
4.	621117205005	ANUPRIYA C	45
5.	621117205006	ASHAMARY M	47
6.	621117205008	BHUVANESWARI B	40
7.	621117205009	CHANDHARALEKA	41
8.	621117205010	HEMALATHA S	42
9.	621117205011	KANCHANA S	43
10.	621117205012	MANJULA S	44
11.	621117205013	MARY VALENTINA	44
12.	621117205014	NANDHINI A	46
13.	621117205015	PRAVEENA V	48
14.	621117205017	PRIYADARSHINI D	38
15.	621117205018	PRIYANKA P	39
16.	621117205020	SHAHIKA	40
17.	621117205022	VAITHEESHWARI	37

Course Co-ordinator

*R. Gurumani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
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HOD



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

## Chinnasalem – 606201, Kallakurichi Dt.


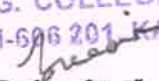
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.  
Permanently Affiliated Programmes - CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....Anupriya C.....  
studying .....III - IT..... has successfully completed.....30 hours..... Add-on Course  
on.....Introduction to Data Analytics for Business..... conducted by the Department of  
.....CSE..... from ..31.01.2020..to..15.02.2020.. In the academic year ....2019-2020..

  
Course co-ordinator

  
HOD

  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT  
  
Principal




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### CERTIFICATE OF COMPLETION

This is to Certify that.....Mary Valentina P.....  
 studying III - IT..... has successfully completed.....30 hours..... Add-on Course  
 on.....Introduction to Data Analytics for Business..... conducted by the Department of  
CSE..... from 31.01.2020 to 15.02.2020. In the academic year 2019 - 2020...

  
**Course co-ordinator**

  
**HOD**

  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.IE.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606201, KALLAKURICHI DT.**  
**Principal**



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Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....V. Praveena.....  
studying .....III - IT..... has successfully completed.....30 hours..... Add-on Course  
on.....Introduction to Data Analytics for Business..... conducted by the Department of  
.....CSE..... from 31.01.2020 to 15.02.2020.. In the academic year ...2019.....2020..

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A. **Principal**  
PRINCIPAL  
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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **PROBLEM SOLVING WITH ALGORITHMS AND DATA STRUCTURES USING PYTHON**





# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/RL/2019

Date: 21.06.2019

## Requisition Letter

To

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through

Head of the Department,  
Department of Computer Science and Engineering

Sub: Request for conducting a 30 hours Add-on Course.

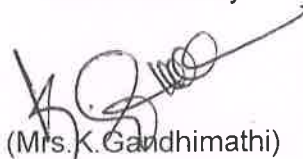
Dear Sir,

I, Mrs.K.Gandhimathi, Associate Professor in the Department of Computer and Science Engineering, would like to conduct a 30 hours add-on Course with the objective of review the ideas of computer science, programming, and problem-solving, understand abstraction and the role it plays in the problem-solving Process, understand and implement the notion of an abstract data type, review the Python programming language on "Problem Solving with Algorithms and Data Structures using Python" from 01.07.2019-05.07.2019 for second year CSE & IT students. In this regards, I request you to give permission for the Course.

Thanking you sir.

Yours sincerely

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

  
(Mrs. K. Gandhimathi)



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/CC/2019

Date: 21.06.2019

## Add-on Course

Name of the Course: **Problem Solving with Algorithms and Data Structures using Python**

Academic Year: 2019-20


### Course Objectives:

- To review the ideas of computer science, programming, and problem-solving.
- To understand abstraction and the role it plays in the problem-solving Process.
- To understand and implement the notion of an abstract data type.
- To review the Python programming language.

Topic-I	<b>Control Structures</b> :-Input and Output- Exception Handling- Defining Functions- Object-Oriented Programming in Python: Defining Classes-A Fraction Class A Proper Class-Writing a Proper Python Class- Making your Class Comparable-Big-O Notation-An Anagram Detection - Performance of Python Data Structures-Lists-Dictionaries.	6
Topic-II	<b>Basic Data Structures</b> : Linear Structures—Stack- The Stack Abstract Data Type- Implementing a Stack in Python- Simple Balanced Parentheses-. Balanced Symbols (A General Case)-Converting Decimal Numbers to Binary Numbers-Infix, Prefix and Postfix Expressions- Queue-The Queue Abstract Data Type- Implementing a Queue in Python-Simulation: Hot Potato-Simulation: Printing Tasks- Deque - The Deque Abstract Data Type-implementing a Deque in Python- Palindrome-Checker	6
Topic-III	<b>Recursion</b> : Calculating the Sum of a List of Numbers- The Three Laws of Recursion-Converting an Integer to a String in Any Base- Stack Frames: Implementing Recursion- Introduction: Visualizing Recursion Sierpinski Triangle- Complex Recursive Problems- Tower of Hanoi Exploring a Maze= Dynamic Programming	6
Topic-IV	<b>Sorting and Searching</b> : Searching- The Sequential Search- The Binary Search Hashing- Sorting- The Bubble Sort- The Selection Sort- The Insertion Sort- The Shell Sort- The Merge Sort- The Quick Sort- Summary	6
Topic-V	<b>Trees and Tree Algorithms</b> : Examples of Trees- Vocabulary and Definitions- List of Lists Representation- Nodes and References- Parse Tree-Tree Traversals- Priority Queues with Binary Heaps- Binary Heap Operations-Binary Heap Implementation-Binary Search Trees- Search Tree Operations- Search Tree Implementation- Search Tree Analysis-Balanced Binary Search Trees-	6
<b>Total Hours</b>		<b>30</b>

**Course Outcomes** : After this course students able to work efficiently on Control Structures, Basic Data, Structures, Recursion, Sorting and Searching, Trees and Tree Algorithms

Course Co-ordinator.

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE, P.L.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/CIR/2019

Date: 22/06 /2019

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CIRCULAR

The Department of Computer Science and Engineering is offering "Problem Solving with Algorithms and Data Structures using Python" as 30 hours add-on course for second year CSE& IT students from 01.07.2019 to 05.07.2019 for the academic year 2019-2020. Mrs. K.Gandhimathi, Associate Professor /CSE will coordinate this course. Interested students can enrol their name for the course with Mrs K.Gandhimathi.


  
HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. HOD( IT )
5. To circulate among the department staff members.
6. File.

CC To:

To read second year CSE& IT classes.

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
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Chennai.

**Add on Course**  
**On**  
*"Problem Solving with Algorithms  
and  
Data Structures using Python"*

**01st JULY 2019 - 05th JULY 2019**

**K.Gandhimathi, Associate Professor /CSE**

**Participants: Second year CSE & IT Students**

**Objectives:**

- To review the ideas of computer science, programming, and problem-solving.
- To understand abstraction and the role it plays in the problem-solving Process.
- To understand and implement the notion of an abstract data type.
- To review the Python programming language.

**Venue: LH 14**

**Last Date Of Registration: 30.06.2019**

**Contact: 04151-258325**

*Praveen*  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
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Ref: IECW/CSE/SR/2019-20

Date: 30.06.2019

## Add-on Course

Name of the Course: **Problem Solving with Algorithms and Data Structures using Python**

Academic Year: 2019-2020

Year/Dept.: II/CSE

Course Duration: 01.07.2019-05.07.2019 (30 hours)

## Registered Students

S. No	Roll No.	Name
1.	621118104001	AGNES TREESA
2.	621118104002	ANGEL J
3.	621118104003	APOORVASRI M
4.	621118104004	BABYKALAIYARASI
5.	621118104005	BAVINA D
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28.	621118104030	RENUGADEVI M
29.	621118104031	SANDHIGA.M
30.	621118104032	SANGEETHA T

*Ramani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ITE., F

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Course Co-ordinator

  
HOD

  
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14.	621118205015	VAIJAYANTHI V
15.	621118205016	YAMUNASRI S
16.	621118205901	DHARANYA G R

Course Coordinator

HOD

*R. Gurumani*  
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Date: 01.07.2019

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Year/Dept.: II/CSE

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Course Co-ordinator

  
HOD

  
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Ref: IECW/IT/SAL/2019-20

Date: 01.07.2019

## Add-on Course

Name of the Course: **Problem Solving with Algorithms and Data Structures using Python**

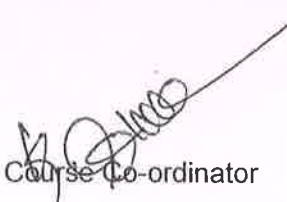
Academic Year: 2019-2020


Year/Dept.: II/IT

Course Duration: 01.07.2019-05.07.2019 (30 hours)

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15.	621118205016	YAMUNASRI S	/	/	/	/	/
16.	621118205901	DHARANYA G R	/	/	/	/	/

  
Course Co-ordinator

  
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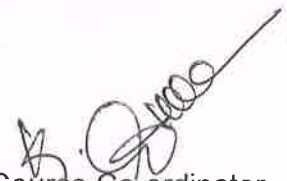
Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/ER/2019


Date: 10.07.2019


## Event Report

Name of Activity: Add on Course: <b>Problem Solving with Algorithms and Data Structures using Python.</b>			
Organized by: Department of Computer Science and Engineering			
Date: 01.07.2019 to 05.07.2019		Total Participants:51	
Resource Person:Details			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Mrs.K.Gandhimathi	Associate Professor	Department of Computer Science and Engineering - IECW, Chinnasalem
<p>For the benefits of student's the department of Computer Science and Engineering, Idhaya Engineering College For Women, Chinnasalem. Conducted a 30 hours Add-on Course on "Problem Solving with Algorithms and Data Structures using Python." from 01.07.2019 to 05.07.2019. Mrs.K.Gandhimathi, Associate Professor /CSE were the resource person. The students from second year CSE &amp; IT actively Participated in this course. The course ended with the outcome of the students able to work efficiently on Control Structures, Basic Data, Structures, Recursion, Sorting and Searching, Trees and Tree Algorithms.</p>			

  
Course Co-ordinator

  
AOD

  
Principal

  
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Ref: IECW/CSE/ML/2019-20

Date: 15.07.2019

## Add-on Course

Name of the Course: **Problem Solving with Algorithms and Data Structures using Python**

Academic Year: 2019-2020

Year/Dept.: II/CSE

Course Duration: 01.07.2019-05.07.2019 (30 hours)

## Mark List

S. No	Roll No.	Name	Marks
1.	621118104001	AGNES TREESA	48
2.	621118104002	ANGEL J	45
3.	621118104003	APOORVASRI M	44
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Course Duration: 01.07.2019-05.07.2019 (30 hours)

## Mark Lists

S. No	Roll No.	Name	Marks	50
1.	621118205001	AFREEN M	43	
2.	621118205002	ANNAKODI B	40	
3.	621118205003	BHUVANESHW A	38	
4.	621118205004	DHULSIN A	45	
5.	621118205005	FARSHA T	47	
6.	621118205007	HEENA J	40	
7.	621118205008	INFANT DAICY T	41	
8.	621118205009	JESTIN JEEVA Y	42	
9.	621118205010	MADHUMITHA V	43	
10.	621118205011	MONIKA S	44	
11.	621118205012	ROSY J	44	
12.	621118205013	SNEHA V	46	
13.	621118205014	SWETHA M J	48	
14.	621118205015	VAIJAYANTHI V	38	
15.	621118205016	YAMUNASRI S	39	
16.	621118205901	DHARANYA G R	42	

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

## Chinnasalem – 606201, Kallakurichi Dt.


Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.  
 Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....Monica Cecili V......  
 studying .....II - CSE..... has successfully completed.....30 hours..... Add-on Course  
 on.....Problem Solving with Algorithms and Data Structure Using Python..... conducted by the Department of  
 .....CSE..... from 01.07.2019 to 05.07.2019. In the academic year 2019-2020....

  
 Course co-ordinator

  
 HOD

  
 Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT  
 Principal



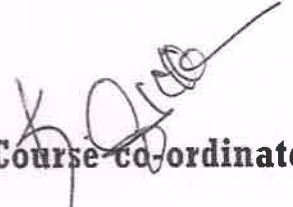
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### CERTIFICATE OF COMPLETION

This is to Certify that.....S. Yamunasri.....  
 studying .....U - II..... has successfully completed.....30 hours..... Add-on Course  
 on Problem Solving with Algorithm & Data Structure using Python conducted by the Department of  
CBE..... from 01.07.2019 to 05.07.2019.. In the academic year ..2019.....2020..

  
 Course co-ordinator

  
 HOD

  
 Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.EDU  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
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### CERTIFICATE OF COMPLETION

This is to Certify that.....B. Yuvasree.....  
 studying .....II - IT..... has successfully completed.....30 hours..... Add-on Course  
 on.....Problem Solving with Algorithms & Data Structure Using Python..... conducted by the Department of  
 .....CSE..... from 01.07.2019..... to 05.07.2019.. In the academic year ....2019 - 2020...

  
 Course co-ordinator

  
 HOD

  
**Dr. R. GURUMANI**, M.E., Ph.D., M.B.A., MISTE, M.T.  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.

  
 Principal



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2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **MODEL DEVELOPMENT USING EXPLORATORY ANALYSIS**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/RL/2019

Date: 24.06.2019.

## Requisition Letter

To:

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through:

Head of the Department,  
Department of Electronics and Communication Engineering,

Sub: Request for organising a 30 hours add-on course.


Dear Sir,

I, Mr. M. Mahesh Assistant Professor in the Department of Electronics and Communication Engineering. I would like to conduct a 30 hours add-on Course with the objective of essential exploratory techniques for summarizing data. These techniques are typically applied before formal modeling commences and can help inform the development of more complex statistical models. Exploratory techniques are also important for eliminating or sharpening potential hypotheses about the world that can be addressed by the data. We will cover in detail the plotting systems in R as well as some of the basic principles of constructing data graphics. We will also cover some of the common multivariate statistical techniques used to visualize high-dimensional data on "Model Development Using Exploratory Analysis" from 01.07.2019 to 05.07.2019 for second year ECE&EEE. In this regards, I request you to give permission for the Course.

Thanking you sir

Yours Sincerely

  
**Dr.R.GURUMANI,M.E.,Ph.D.,M.B.A.,M.ISTE.,F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201. KALLAKURICHI DT.**

  
Mr. M. Mahesh.



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Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/ECE/CC/2019-20

Date: 24.06.2019

## Add-on Course-Syllabus

Name of the Course: **Model Development Using Exploratory Analysis.**

Academic Year: 2019-20

### Course Objectives:

This course covers the essential exploratory techniques for summarizing data. These techniques are typically applied before formal modeling commences and can help inform the development of more complex statistical models. Exploratory techniques are also important for eliminating or sharpening potential hypotheses about the world that can be addressed by the data. We will cover in detail the plotting systems in R as well as some of the basic principles of constructing data graphics. We will also cover some of the common multivariate statistical techniques used to visualize high-dimensional data.

<b>Module -1</b>	Introduction-Installing R on Windows -Installing R on a Mac -Installing R Studio (Mac)-Setting Your Working Directory (Windows)-Setting Your Working Directory (Mac)-Principles of Analytic Graphics-Exploratory Graphs	<b>6</b>
<b>Module- 2</b>	Exploratory Graphs -Plotting Systems in R-Base Plotting System -Base Plotting System -Base Plotting Demonstration-Graphics Devices in R Graphics Devices in R-Lattice Plotting System -Lattice Plotting System.	<b>6</b>
<b>Module- 3</b>	Hierarchical Clustering -Hierarchical Clustering -Hierarchical -K-Means Clustering -K-Means Clustering -	<b>6</b>
<b>Module -4</b>	Working with Color in R Plots -Working with Color in R Plots -Working with Color in R Plots -Working with Color in R Plots	<b>6</b>
<b>Module -5</b>	Clustering Case Study-Air Pollution Case Study	<b>6</b>

Total Hours **30**

**Course Outcomes:** Students able to apply to multiple Specializations or Professional. Completing this course will count towards learning in Data Science Specialization, Data Science: Foundations using R Specialization.

  
Course Co-ordinator

  
HOD

**Dr.R.GURUMANI**,M.E.,Ph.D.,M.B.A.,M.ISTE.,F.IE.,  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/ECE/CIR/2019

Date: 25.06.2019

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CIRCULAR

The Department of Electronics and Communication Engineering is offering "Model Development Using Exploratory Analysis" as 30 hours add-on course for Second year EEE&ECE students from 01.07.2019 to 05.07.2019 for the academic year 2019-2020. Mr. M. Mahesh., Assistant Professor /ECE will coordinate this course. Interested students can enrol their name for the course with Mr. M. Mahesh.

*M. Mahesh*  
H.O.D (ECE)

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. HOD (EEE)
5. To circulate among the department staff members.
6. File.

CC To:

To read second year EEE&ECE classes.

*M. Mahesh*  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M. ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT**



**IDHAYA ENGINEERING COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.**  
**Approved by AICTE, New Delhi, Affiliated to Anna University,**  
**Chennai.**

**Add on Course**  
**On**  
**"Model Development Using**  
**Exploratory Analysis"**

**01st JULY 2019 - 05th JULY 2019**

**Mr. M. Mahesh, Assistant Professor /ECE**

**Participants: Second year ECE & EEE Students**

**Objectives:**

**is course covers the essential exploratory techniques for summarizing data. These techniques are typically applied before formal modeling commences and can help inform the development of more complex statistical models. Exploratory techniques are also important for eliminating or sharpening potential hypotheses about the world that can be addressed by the data.**

**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**

**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.**

**Venue: LH 16**

**Last Date Of Registration: 28.06.2019**

**Contact: 04151-258325**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/SR/2019

Date: 28.06.2019

## Add-on Course

Name of the Course: **Model Development Using Exploratory Analysis**

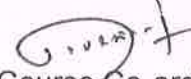
Academic Year: 2019-20


Course Duration: 01.07.2019 to 05.07.2019 (30 hours)


Year/Dept.: II/ECE

## Registered Students

S. No	Roll No.	Name
1.	621118106001	AATHILAKSHMI P
2.	621118106002	ABINAYA A
3.	621118106003	AMIRTHA V
4.	621118106004	ANISHYA S
5.	621118106005	ARULMOZHI M
6.	621118106006	BHUVANESHWARI M
7.	621118106007	HIMALDA FRANCINA M
8.	621118106008	PRAVEENA B
9.	621118106010	RAJAKUMARI P
10.	621118106011	RATHI MEENA B
11.	621118106012	REENA S
12.	621118106013	SANGAVI D
13.	621118106014	SHANMUGAPRIYA.S
14.	621118106015	SOWMIYA R
15.	621118106016	USHA D
16.	621118106017	VIDHYA T

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,  
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Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/SR/2019

Date: 29.06.2019

## Add-on Course

Name of the Course: **Model Development Using Exploratory Analysis** Academic Year: 2019-20

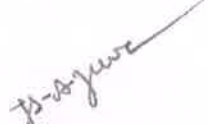
Course Duration: 01.07.2019 to 05.07.2019 (30 hours)


Year/Dept.: II/EEE

## Registered Students

S. No	Roll No.	Name
1.	621118105001	AGASTIYA K
2.	621118104002	BHAVANI S
3.	621118103003	CHANDHINI S
4.	621118102004	INDIRA N
5.	621118101005	KAVIYA S
6.	621118100006	MADHUBALA S
7.	621118099007	PAVEENA P
8.	621118098008	PAVENDHIRA M
9.	621118097009	PRAVINA V

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT





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Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/SAL/2019

Date: 01.07.2019

## Add-on Course

Name of the Course: **Model Development Using Exploratory Analysis**

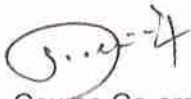
Academic Year: 2019-20

Course Duration: 01.07.2019 to 05.07.2019 (30 hours)

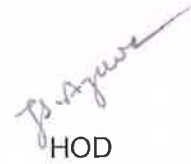
Year/Dept.: II/ECE

## Attendance List


S. No	Roll No.	Name	01.07.2019	02.07.2019	03.07.2019	04.07.2019	05.07.2019
1.	621118106001	AATHILAKSHMI P	/	/	/	/	/
2.	621118106002	ABINAYA A	/	/	/	/	/
3.	621118106003	AMIRTHA V	/	/	a	/	/
4.	621118106004	ANISHYA S	/	/	/	/	/
5.	621118106005	ARULMOZHI M	/	/	/	/	/
6.	621118106006	BHUVANESHWARI M	/	/	/	/	/
7.	621118106007	HIMALDA FRANCINA	/	/	/	/	/
8.	621118106008	PRAVEENA B	/	/	/	/	/
9.	621118106010	RAJAKUMARI P	/	/	/	/	/
10.	621118106011	RATHI MEENA B	/	/	/	/	/
11.	621118106012	REENA S	/	/	/	/	/
12.	621118106013	SANGAVI D	/	/	/	/	/
13.	621118106014	SHANMUGAPRIYA.S	a	/	/	/	/
14.	621118106015	SOWMIYA R	/	/	/	/	/
15.	621118106016	USHA D	/	/	/	/	/
16.	621118106017	VIDHYA T	/	/	/	/	/



Course Co-ordinator



HOD

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT.**



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/SAL/2019

Date: 01.07.2019

## Add-on Course

Name of the Course: **Model Development Using Exploratory Analysis**

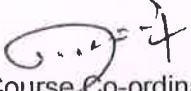
Academic Year: 2019-20

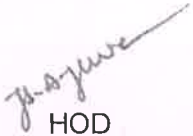
Course Duration: 01.07.2019 to 05.07.2019 (30 hours)


Year/Dept.: II/EEE

## Attendance List

S. No	Roll No.	Name	01.07.2019	02.07.2019	03.07.2019	04.07.2019	05.07.2019
1.	621118105001	AGASTIYA K	/	/	/	/	/
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3.	621118103003	CHANDHINI S	/	/	/	/	/
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6.	621118100006	MADHUBALA S	/	/	/	a	/
7.	621118099007	PAVEENA P	/	/	/	/	/
8.	621118098008	PAVENDHIRA	/	/	/	/	/
9.	621118097009	PRAVINA V	/	/	/	/	/

  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/ER/2019


Date: 09.07.2019

## Event Report

Name of Activity: Add- On Course: <b>Model Development Using Exploratory Analysis.</b>			
Organized by: Electronics and Communication Engineering.			
Date: 01.07.2019 to 05.07.2019		Total Participants:25	
Resource Person: Details			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Mr. M. Mahesh	Assistant Professor	Electronics and Communication Engineering -IECW, Chinnasalem
<p>For the benefits of student's the department of Electronics and Communication Engineering, Idhaya Engineering College For Women, Chinnasalem. Conducted a 30 hours Add-on Course on "Model Development Using Exploratory Analysis" from 01.07.2019 to 05.07.2019. Mr. M. Mahesh, Assistant Professor /ECE were the resource person. The students from Second year ECE &amp; EEE actively Participated in this course. The course ended with the outcome of Students able to apply to multiple Specializations or Professional. Completing this course will count towards learning in Data Science Specialization, Data Science foundation's using R Specialization.</p>			

  
Course Co-ordinator

  
HOD

  
Principal

**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI**



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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/ML/2019

Date: 09.07.2019

## Add On Course

Name of the Course: **Model Development Using Exploratory Analysis** Academic Year: 2019-20

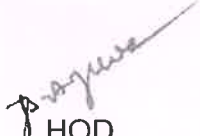
Course Duration: 01.07.2019 to 05.07.2019 (30 hours)


Year/Dept.: II/ECE

## Mark Lists

S. No	Roll No.	Name	Marks
1.	621118106001	AATHILAKSHMI P	38
2.	621118106002	ABINAYA A	45
3.	621118106003	AMIRTHA V	47
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14.	621118106015	SOWMIYA R	40
15.	621118106016	USHA D	37
16.	621118106017	VIDHYA T	48

  
Course Co-ordinator

  
HOD

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/ML/2019

Date: 29.06.2019

## Add On Course

Name of the Course: **Model Development Using Exploratory Analysis** Academic Year: 2019-20

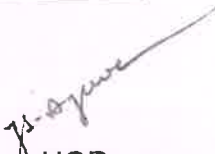
Course Duration: 01.07.2019 to 05.07.2019 (30 hours)


Year/Dept.: II/EEE

## Mark Lists

S. No	Roll No.	Name	Marks 50
1.	621118105001	AGASTIYA K	40
2.	621118104002	BHAVANI S	42
3.	621118103003	CHANDHINI S	45
4.	621118102004	INDIRA N	37
5.	621118101005	KAVIYA S	39
6.	621118100006	MADHUBALA S	43
7.	621118099007	PAVEENA P	40
8.	621118098008	PAVENDHIRA M	47
9.	621118097009	PRAVINA V	41

  
Course Co-ordinator

  
HOD

  
**Dr. R. GURUMANI**, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DISTRICT



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

## Chinnasalem – 606201, Kallakurichi Dt.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....S. Madhubala.....  
studying .....II - EEE..... has successfully completed.....30 hours..... Add-on Course  
on.....Model Development Using Exploratory Analysis..... conducted by the Department of  
.....ECE..... from 01.07.2019 to 05.07.2019. In the academic year ...2019.....2020...

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.IS. Principal

PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

## Chinnasalem – 606201, Kallakurichi Dt.

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 Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.


### CERTIFICATE OF COMPLETION

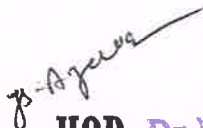

This is to Certify that.....V. Pravina.....

studying .....II-EEE..... has successfully completed.....50 hours..... Add-on Course

on.....Model Development Using Exploratory Analysis..... conducted by the Department of

.....ECE..... from 01.07.2019 to 05.07.2019.. In the academic year ...2019-2020..

  
**Course co-ordinator**

  
**HOD** Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M. ISTE EIT,   
**Principal**

IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

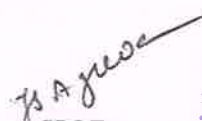
## Chinnasalem – 606201, Kallakurichi Dt.

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 Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....P. Athilakshmi.....  
 studying .....II - ECE..... has successfully completed.....30 hours..... Add-on Course  
 on.....Model Development Using Exploratory Analysis..... conducted by the Department of  
 .....ECE..... from 01.07.2019 to 05.07.2019.. In the academic year 2019 - 2020..

  
**Course co-ordinator**

  
**HOD**

  
**Dr. R. GURUMANI**, M.E., Ph.D., M.B.A., M.S.S.  
**Principal**  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.





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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **ARTIFICIAL INTELLIGENCE AND STATISTICAL MACHINE LEARNING**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/RL/2019

Date: 24.06.2019

## Requisition Letter

To .

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through .

Head of the Department,  
Department of Computer Science and Engineering.

Sub: Request for organising a 30 hours Add- on Course.

Dear Sir,

I, Dr. S. Jayasundar, Associate Professor in the Department of Computer Science and Engineering, would like to conduct a 30 hours Add- on Course with the objective of the field of artificial intelligence (AI) develops the principles and processes for designing autonomous agents. This course addresses the core concepts in designing autonomous agents that can reason, learn, and act to achieve user-given objectives and prepares the students to address emerging technical and ethical challenges using a principled approach to the field on "Artificial Intelligence and Statistical Machine Learning" from 01.07.2019-05.07.2019 for final year CSE & IT students. In this regards, I request you to give permission for the Course.

Thanking you sir.

Yours sincerely

( Dr. S. Jayasundar)

*Guramani*  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/CC/2019

Date: 24.06.2019

## Add-on Course

Name of the Course: **Artificial Intelligence and Statistical Machine Learning**

Academic Year: 2019-20

**Course Objectives:** The field of artificial intelligence (AI) develops the principles and processes for designing autonomous agents. This course addresses the core concepts in designing autonomous agents that can reason, learn, and act to achieve user-given objectives and prepares you to address emerging technical and ethical challenges using a principled approach to the field.

### Module-I Artificial Intelligence


6

- Neural Networks
- Classical Planning
- Modeling & Reasoning
- Reinforcement Learning
- Markov Decision Processes (MDPs)
- Partially Observable Markov Decision Processes (POMDPs)
- Bayesian Networks
- Sensors for Perception

### Module -II

6

- Perception-based Recognition
- Real-world Applications
- Robotics
- Bayesian Networks
- Sensors for Perception
- Perception-based Recognition
- Real-world Applications
- Robotics

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

<b>Module -III</b>	<b>Statistical Machine Learning</b>	<b>6</b>
	<ul style="list-style-type: none"><li>• Mathematical foundations for machine learning</li><li>• Maximum likelihood estimation</li><li>• Naive Bayes classification</li><li>• Logistic regression</li></ul>	
<b>Module -IV</b>	<ul style="list-style-type: none"><li>• Support vector machines</li><li>• Probabilistic graphical models</li><li>• Mixture models</li><li>• K-means clustering</li><li>• Spectral clustering</li></ul>	<b>6</b>
<b>Module -V</b>	<ul style="list-style-type: none"><li>• Dimensionality reduction</li><li>• Principal component analysis</li><li>• Neural networks and deep learning</li><li>• Convolutional neural networks</li></ul>	<b>6</b>
	<b>Total Hours</b>	<b>30</b>

  
Course Co-ordinator.

  
HOD

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/CIR/2019

Date: 25.06.2019

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CIRCULAR

The Department of Computer Science and Engineering is offering "Artificial Intelligence and Statistical Machine Learning" as 30 hours Add-on Course for final year CSE& IT students from 01.07.2019 to 05.07.2019 for the academic year 2019-2020. Dr. S. Jayasundar, Associate Professor /CSE will coordinate this course. Interested students can register your name for the course with Dr. S. Jayasundar.

  
HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. HOD( IT )
5. To circulate among the department staff members.
6. File.

CC To:

To read final year CSE& IT classes.

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



**IDHAYA ENGINEERING COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.**  
**Approved by AICTE, New Delhi, Affiliated to Anna University,**  
**Chennai.**

# **Add on Course**

## **On**

# **"Artificial Intelligence and Statistical Machine Learning"**

**01st JULY 2019 - 05th JULY 2019**

**Dr. S. Jayasundar, Associate Professor /CSE**

**Participants: Final year CSE & IT Students**

### **Objectives:**

The field of artificial intelligence (AI) develops the principles and processes for designing autonomous agents. This course addresses the core concepts in designing autonomous agents that can reason, learn, and act to achieve user-given objectives and prepares you to address emerging technical and ethical challenges using a principled approach to the field.

**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**

**IDHAYA ENGG. COLLEGE FOR WOMEN**

**Venue: LH 01**

**Last Date Of Registration: 28.06.2019**

**Contact: 04151-258325**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/SR/2019

Date: 28.06.2019

## Add On Course

Name of the Course: Artificial Intelligence and Statistical Machine Learning Academic Year: 2019-20

Course Duration: 01.07.2019-05.07.2019 (30 hours)

Year/Dept: IV/CSE

## Registered Students

S. No	Roll No.	Name
1.	621116104001	ABIRAMI.R
2.	621116104002	AISWARIYA S
3.	621116104003	AMALA DARATHI B
4.	621116104004	ANITHA S
5.	621116104005	ARCHANA R
6.	621116104006	DHANISHA BANU A
7.	621116104007	EZHILARASI M
8.	621116104008	HASEENA PARVEEN F
9.	621116104009	INFANTA QUEEN T
10.	621116104010	JESSIE RIYOSHNA MARY R
11.	621116104011	KAVYA K
12.	621116104012	MANGAYAR KARASI R M
13.	621116104013	MANIMEGALAI M
14.	621116104014	MANIMOZHI S
15.	621116104016	MARIE SMILEIN A
16.	621116104017	MONIKHA S
17.	621116104018	MONISHA B
18.	621116104019	MURUGASELVI R
19.	621116104020	NAZIYAN SUSMITHA G
20.	621116104022	PRESILLA KANIMOZHI A
21.	621116104023	RAMYA M
22.	621116104024	RANJANI M
23.	621116104025	ROHINI S
24.	621116104026	SAMREEN T
25.	621116104028	SANDHIYA S
26.	621116104029	SARANYA C
27.	621116104031	SAVITHRA T
28.	621116104032	SIMRAN A
29.	621116104035	SWETHA S
30.	621116104036	THARANI T

Course Co-ordinator

*Neeraj*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

*HOD*  
HOD (CSE)

Ref: IECW/IT/SR/2019

Date: 28.06.2019



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## Add-on Course

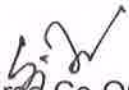
Name of the Course: Artificial Intelligence and Statistical Machine Learning Academic Year: 2019-20


Course Duration: 01.07.2019-05.07.2019 (30 hours)

Year/Dept.: IV/IT

## Registered Students

S. No	Roll No.	Name
1.	621116205001	ANJALAI A
2.	621116205002	ANUSUYA J
3.	621116205003	DHANUSUYA V
4.	621116205004	GOWSHIKA J
5.	621116205005	GRACY NIRMALA R
6.	621116205006	JASMIN MARY J
7.	621116205007	PRIYA R
8.	621116205008	PRIYANKA E
9.	621116205009	RAJALAKSHMI R
10.	621116205012	SHALINI K

  
Course Co-Ordinator

  
HOB (IT)

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M. ISTE., F.I.E.,  
PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.





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Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/SAL/2019

Date: 01.07.2019

## Add-on Course

Name of the Course: Artificial Intelligence and Statistical Machine Learning Academic Year: 2019-20

Course Duration: 01.07.2019-05.07.2019 (30 hours)

Year/Dept.: IV/CSE

## Students Attendance List

S. No	Roll No.	Name	01.07.2019	02.07.2019	03.07.2019	04.07.2019	05.07.2019
1.	621116104001	ABIRAMI.R	/	/	/	/	/
2.	621116104002	AISWARIYA S	/	/	/	/	/
3.	621116104003	AMALA DARATHI B	/	a	/	/	/
4.	621116104004	ANITHA S	/	/	/	a	/
5.	621116104005	ARCHANA R	/	/	/	/	/
6.	621116104006	DHANISHA BANU A	/	/	/	/	/
7.	621116104007	EZHILARASI M	/	/	/	/	/
8.	621116104008	HASEENA PARVEEN F	/	/	/	/	/
9.	621116104009	INFANTA QUEEN T	/	/	/	/	/
10.	621116104010	JESSIE RIYOSHNA	/	/	/	/	a
11.	621116104011	KAVYA K	/	/	/	/	/
12.	621116104012	MANGAYAR KARASI R	/	/	/	/	/
13.	621116104013	MANIMEGALAI M	/	/	/	/	/
14.	621116104014	MANIMOZHI S	/	/	/	/	/
15.	621116104016	MARIE SMILEIN A	a	/	/	/	/
16.	621116104017	MONIKHA S	/	/	/	/	/
17.	621116104018	MONISHA B	/	/	/	/	/
18.	621116104019	MURUGASELVI R	/	/	/	/	/
19.	621116104020	NAZIYAN SUSMITHA G	/	/	/	/	/
20.	621116104022	PRESILLA KANIMOZHI	/	/	/	/	/
21.	621116104023	RAMYA M	/	/	/	/	/
22.	621116104024	RANJANI M	/	/	/	/	/
23.	621116104025	ROHINI S	/	/	/	/	a
24.	621116104026	SAMREEN T	/	/	/	/	/
25.	621116104028	SANDHIYA S	/	/	/	/	/
26.	621116104029	SARANYA C	/	/	/	/	/
27.	621116104031	SAVITHRA T	/	/	/	/	/
28.	621116104032	SIMRAN A	/	/	/	/	/
29.	621116104035	SWETHA S	a	/	/	/	/
30.	621116104036	THARANI T	/	/	/	/	/

Course Co-ordinator

Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.,  
PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

HOD



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Email ID: idhaya@iecw.edu.in

Ref: IECW/IT/SAL/2019

Date: 01.07.2019

## Add On Course

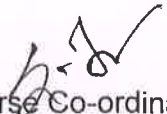
Name of the Course: Artificial Intelligence and Statistical Machine Learning Academic Year: 2019-20

Course Duration: 01.07.2019-05.07.2019 (30 hours)


Year/Dept.: IV/IT

## Students Attendance List

S. No	Roll No.	Name	01.07.2019	02.07.2019	03.07.2019	04.07.2019	05.07.2019
1.	621116205001	ANJALAI A	/	/	/	/	/
2.	621116205002	ANUSUYA J	/	/	/	/	/
3.	621116205003	DHANUSUYA V	/	/	/	/	/
4.	621116205004	GOWSHIKA J	a	/	/	/	/
5.	621116205005	GRACY NIRMALA R	/	/	/	/	/
6.	621116205006	JASMIN MARY J	/	/	/	/	/
7.	621116205007	PRIYA R	/	/	/	/	/
8.	621116205008	PRIYANKA E	/	/	/	/	/
9.	621116205009	RAJALAKSHMI R	/	/	a	/	/
10.	621116205012	SHALINI K	/	/	/	/	/

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMAN, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in


Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/ER/2019

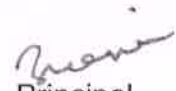
Date: 10.07.2019

## Event Report

Name of Activity: Add- On Course: Artificial Intelligence and Statistical Machine Learning.			
Organized by: Department of Computer Science and Engineering			
Date: 01.07.2019 to 05.07.2019		Total Participants:40	
Resource Person:			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Dr. S. Jayasundar	Associate Professor	Department of Computer Science and Engineering - IECW, Chinnasalem
<p>For the benefits of student's the department of Department of Computer Science and Engineering, Idhaya Engineering College For Women, Chinnasalem. Conducted five days Add-on course on "Artificial Intelligence and Statistical Machine Learning" from 01.07.2019 to 05.07.2019. Dr. S. Jayasundar, Associate Professor /CSE were the resource person. The students from final year CSE&amp;IT were actively Participated in this course. The course ended with the outcome of the students acquired depth knowledge in Statistical Machine Learning, Artificial Intelligence.</p>			

  
Course Co-ordinator

  
HOD

  
Principal

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.,

PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/ML/2019

Date: 10.07.2019

## Add-on Course

Name of the Course: Artificial Intelligence and Statistical Machine Learning Academic Year: 2019-20

Course Duration: 01.07.2019-05.07.2019 (30 hours)

Year/Dept: IV/CSE

## Mark List

S. No	Roll No.	Name	Marks
1.	621116104001	ABIRAMI.R	38
2.	621116104002	AISWARIYA S	45
3.	621116104003	AMALA DARATHI B	47
4.	621116104004	ANITHA S	40
5.	621116104005	ARCHANA R	41
6.	621116104006	DHANISHA BANU A	42
7.	621116104007	EZHILARASI M	43
8.	621116104008	HASEENA PARVEEN F	44
9.	621116104009	INFANTA QUEEN T	44
10.	621116104010	JESSIE RIYOSHNA MARY R	46
11.	621116104011	KAVYA K	48
12.	621116104012	MANGAYAR KARASI R M	38
13.	621116104013	MANIMEGALAI M	39
14.	621116104014	MANIMOZHI S	40
15.	621116104016	MARIE SMILEIN A	37
16.	621116104017	MONIKHA S	48
17.	621116104018	MONISHA B	45
18.	621116104019	MURUGASELVI R	44
19.	621116104020	NAZIYAN SUSMITHA G	46
20.	621116104022	PRESILLA KANIMOZHI A	40
21.	621116104023	RAMYA M	41
22.	621116104024	RANJANI M	42
23.	621116104025	ROHINI S	39
24.	621116104026	SAMREEN T	38
25.	621116104028	SANDHIYA S	45
26.	621116104029	SARANYA C	47
27.	621116104031	SAVITHRA T	42
28.	621116104032	SIMRAN A	46
29.	621116104035	SWETHA S	48
30.	621116104036	THARANI T	38

*Ramani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Course Co-Ordinator

HOD (CSE)

Ref: IECW/IT/ML/2019

Date: 10.07.2019

## Add-on Course

Name of the Course: Artificial Intelligence and Statistical Machine Learning Academic Year: 2019-20

Course Duration: 01.07.2019-05.07.2019 (30 hours)


Year/Dept: IV/IT

## Mark List

S. No	Roll No.	Name	Marks
1.	621116205001	ANJALAI A	38
2.	621116205002	ANUSUYA J	39
3.	621116205003	DHANUSUYA V	40
4.	621116205004	GOWSHIKA J	37
5.	621116205005	GRACY NIRMALA R	48
6.	621116205006	JASMIN MARY J	45
7.	621116205007	PRIYA R	44
8.	621116205008	PRIYANKA E	46
9.	621116205009	RAJALAKSHMI R	40
10.	621116205012	SHALINI K	41

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

## Chinnasalem – 606201, Kallakurichi Dt.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

Permanently Affiliated Programmes - CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....*Jessie Riyoshna Mary R.*.....  
 studying .....*IV - CSE*..... has successfully completed.....*30 hours*..... Add-on Course  
 on.....*Artificial Intelligence and Statistical Machine Learning*..... conducted by the Department of  
 .....*CSE*..... from *01.07.2019* to *05.07.2019*.. In the academic year ...*2019 - 2020*.....

*[Signature]*  
 Course co-ordinator

*[Signature]*  
 HOD

*[Signature]*  
 Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.  
 Principal



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 Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....Gracy Nirmala R.....  
 studying .....IV - IT..... has successfully completed.....30 hours..... Add-on Course  
 on.....Artificial Intelligence and Statistical Machine Learning..... conducted by the Department of  
 .....CSE..... from 01.07.2019 to 05.07.2019. In the academic year 2019 - 2020.....

  
**Course co-ordinator**

  
**HOD**

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201. KALLAKURICHI DT  
**Principal**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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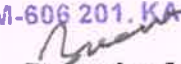
Permanently Affiliated Programmes - CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....*Infanta Queen. T*.....  
studying .....*IV - CSE*..... has successfully completed.....*30 hours*..... Add-on Course  
on.....*Artificial Intelligence and Statistical Machine Learning*..... conducted by the Department of  
.....*CSE*..... from *01.07.2019*..... to.....*05.07.2019*..... In the academic year *2019 - 2020*.....

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,  
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Principal





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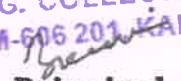
Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that..... J. Jasmin Mary.....  
studying .....IV - IT..... has successfully completed.....30 hours..... Add-on Course  
on.....Artificial Intelligence and Statistical Machine Learning..... conducted by the Department of  
.....CSE..... from 01.07.2019 to 05.07.2019. In the academic year 2019 - 2020.....

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM - 606 201, KALLAKURICHI DT.  
  
Principal



# **IDHAYA ENGINEERING COLLEGE FOR WOMEN**

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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **FROM LOGIC GATES TO PROCESSORS**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/RL/2019

Date: 19.06.2019

## Requisition Letter

To

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through

Head of the Department,  
Department of Electronics and Communication Engineering,


Sub: Request for organising a 30 hours add-on course.

Dear Sir,

I, Mrs. P. Poovizhi, Associate Professor in the Department of Electronics and Communication Engineering. I would like to conduct a 30 hours add-on Course with the objective of a complete insight into the modern design of digital systems fundamentals from an eminently practical point of view. Unlike other more "classic" digital circuit's courses, focuses more on the system than on the electronics that support it. This approach will allow to lay the foundation for the design of complex digital systems. on "From Logic Gates to Processors" from 01.07.2019-05.07.2019 for final year ECE. In this regards, I request you to give permission for the Course.

Thanking you sir

Your siencerely,

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT

(Mrs. P. Poovizhi)



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/ECE/CC/2019-20

Date: 19.06.2019

## Add-on Course- Syllabus

Name of the Course: From Logic Gates to Processors Academic Year: 2019-20

**Course Objectives:** This course gives a complete insight into the modern design of digital systems fundamentals from an eminently practical point of view. Unlike other more "classic" digital circuit's courses, focuses more on the system than on the electronics that support it. This approach will allow to lay the foundation for the design of complex digital systems.

- Module -1 **Course Organization**-Syllabus and bibliography-Grading policy- 5  
Certification-Solving doubts and technical issues-FAQs-About the forums-  
How to install the virtual machine (VM)-FAQs about installing the VM
- Module- 2 Binary numeration system-Algorithm representation in pseudo code- 5  
Numeration systems.
- Module- 3 **Digital System:** . Digital systems- Digital system description - Digital 5  
electronic systems- Processor: Specification - Examples of Programs
- Module -4 **Combinational Circuits** : Combinational circuits- Boolean Algebra- NAND, 5  
NOR, XOR, NXOR, TRI-STATE- Functional specification - Structural  
specification. **VerilUOC Desktop tools:** Introduction to VerilUO Desktop (I).  
Logisim and VerilCirc-Introduction to VerilUO Desktop (II). Bool Min and  
Veril Chart
- Module -5 **Combinational circuits:** Combinational circuit synthesis tools-Propagation 5  
time- Other logic blocks-Programming language structures - Structural  
specification

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Module -6 **Arithmetic components + Introduction to VHDL:** L4.1 Arithmetic blocks - 5  
Lexicon, syntax and structure- Lexicon, syntax and structure- Sequential sentences- Sequential sentences-L- Concurrent sentences - Concurrent sentences- VHDL I (OLD VERSION).

Total Hours 30

**Course Outcomes:** After completion of the course, the students will be able to Design medium complexity digital systems. Understand the description of digital systems using high-level languages such as VHDL. Understand how computers operate at their most basic level (machine language).

  
Course Co-ordinator.

  
HOD

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201. KALLAKURICHI DT.**



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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/CIR/2019

Date: 20.06.2019

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CIRCULAR

The Department of Department of Electronics and Communication Engineering is offering "From Logic Gates to Processors" as 30 hours add-on course for final year ECE students from 01.07.2019 to 05.07.2019 for the academic year 2019-2020. Mrs. P. Poovizhi., Associate Professor /ECE will coordinate this course. Interested students can enrol their name for the course with Mrs. P. Poovizhi.

*P. Poovizhi*  
HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. To circulate among the department staff members.
5. File.

CC To:

To read final year ECE class.

*R. Guruman*  
Dr. R. GURUMAN, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



**IDHAYA ENGINEERING COLLEGE FOR WOMEN**  
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**Chennai.**

**ADD ON COURSE ON**

**"FROM LOGIC GATES TO**

**PROCESSORS"**

**01st JULY 2019 - 05th JULY 2019**

**Mrs. P. Poovizhi, Associate Professor /ECE**

**Participants: Final year ECE Students**

**Objectives:**

This course gives a complete insight into the modern design of digital systems fundamentals from an eminently practical point of view. Unlike other more "classic" digital circuit's courses, focuses more on the system than on the electronics that support it. This approach will allow to lay the foundation for the design of complex digital systems.

**Venue: LH 02**

**Last Date Of Registration: 29.06.2019**

**Contact: 04151-258325**

*Meen*  
**SHRUMANI, M.E., Ph.D., M.B.A., MISTE., FIE.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT**



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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/SR/2019

Date: 29.06.2019

## Add-on Course

Name of the Course: **From Logic Gates to Processors**

Academic Year: 2019-20

Course Duration: 01.07.2019 to 05.07.2019 (30 hours)

Year/Dept.: IV/ECE

## Registered Students

S. No	Roll No.	Name
1.	621116106001	ABARNA K
2.	621116106002	AJITHA P
3.	621116106003	ANITHA A
4.	621116106004	ANJALI DEVI S
5.	621116106005	ARUNA V
6.	621116106006	HANNAH A
7.	621116106007	JEYAPRIYANKA S
8.	621116106008	KAVIYA R
9.	621116106009	KAYALVIZHI P
10.	621116106011	MAHESWARI P
11.	621116106012	MERLIN JOYANA G
12.	621116106013	MONISHA M
13.	621116106014	NAGADHARSHINI.R
14.	621116106015	NAVEENA A
15.	621116106016	NIVETHA D
16.	621116106018	PREETHA K
17.	621116106019	RADHIKA V
18.	621116106020	RAJPRIYA L
19.	621116106021	RAMYA K
20.	621116106022	RUBY METTILDA M
21.	621116106023	SELSIA S
22.	621116106024	SHAHIDHA L
23.	621116106025	SIVASANKARI G
24.	621116106026	SUBASHINI E
25.	621116106027	SUVITHA V
26.	621116106028	YASMIN M
27.	621116106301	ANANDAESWARI J
28.	621116106901	LEELA ROSLIN

Course Co-ordinator

HOD

*Dr. R. Gurumani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL

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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/SR/2019

Date: 01.07.2019

## Ad -on Course

Name of the Course: From Logic Gates to Processors

Academic Year: 2019-20

Course Duration: 01.07.2019 to 05.07.2019 (30 hours)

Year/Dept.: IV/ECE

## Attendance List

S. No	Roll No.	Name	01.07.2019	02.07.2019	03.07.2019	04.07.2019	05.07.2019
1.	621116106001	ABARNA K	/	/	/	/	/
2.	621116106002	AJITHA P	/	/	/	/	/
3.	621116106003	ANITHA A	/	/	/	/	/
4.	621116106004	ANJALI DEVI S	/	/	/	/	/
5.	621116106005	ARUNA V	/	9	/	/	/
6.	621116106006	HANNAH A	/	/	/	/	/
7.	621116106007	JEYAPRIYANKA S	/	/	/	/	/
8.	621116106008	KAVIYA R	/	/	/	/	/
9.	621116106009	KAYALVIZHI P	/	/	/	/	/
10.	621116106011	MAHESWARI P	/	/	/	/	/
11.	621116106012	MERLIN JOYANA G	/	/	/	/	/
12.	621116106013	MONISHA M	/	/	/	/	/
13.	621116106014	NAGADHARSHINI.R	/	/	/	/	/
14.	621116106015	NAVEENA A	/	/	/	/	/
15.	621116106016	NIVETHA D	/	/	/	/	/
16.	621116106018	PREETHA K	/	/	/	/	/
17.	621116106019	RADHIKA V	/	/	/	/	/
18.	621116106020	RAJPRIYA L	/	/	9	/	/
19.	621116106021	RAMYA K	/	/	/	/	/
20.	621116106022	RUBY METTILDA M	/	/	/	/	/
21.	621116106023	SELSIA S	/	/	/	/	/
22.	621116106024	SHAHIDHA L	/	/	/	/	/
23.	621116106025	SIVASANKARI G	/	/	/	/	/
24.	621116106026	SUBASHINI E	/	/	/	/	/
25.	621116106027	SUVITHA V	/	/	/	/	/
26.	621116106028	YASMIN M	/	/	/	/	/
27.	621116106301	ANANDAESWARI J	/	/	/	/	/
28.	621116106901	LEELA ROSLIN	/	/	/	/	/

Course Co-ordinator

HOD

Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.,  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201 KALLAKURICHI DT.



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Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/ER/2019

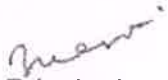
Date: 10.07.2019

## Event Report

Name of Activity: Add- On Course: From Logic Gates to Processors.			
Organized by: Electronics and Communication Engineering			
Date: 01.07.2019 to 05.07.2019		Total Participants:28	
Resource Person: Details			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Mrs. P. Poovizhi	Associate Professor	Electronics and Communication Engineering -IECW, Chinnasalem
<p>For the benefits of student's the department of Electronics and Communication Engineering, Idhaya Engineering College For Women, Chinnasalem. Conducted 30 hours Add-on course on "From Logic Gates to Processors" from 01.07.2019 to 05.07.2019 Mrs. P. Poovizhi, Associate Professor /ECE were the resource person. The students from final year ECE were Participated in this course. The course ended with the outcome of the students will be able to Design medium complexity digital systems. Understand the description of digital systems using high-level languages such as VHDL. Understand how computers operate at their most basic level (machine language).</p>			

  
Course Co-ordinator

  
HOD

  
Principal

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/ML/2019

Date: 10.07.2021

## Add On Course

Name of the Course: **From Logic Gates to Processors**

Academic Year: 2019-20

Course Duration: 01.07.2019 to 05.07.2019 (30 hours)

Year/Dept.: IV/ECE

## Mark List

S. No	Roll No.	Name	Marks	50
1.	621116106001	ABARNA K	46	
2.	621116106002	AJITHA P	46	
3.	621116106003	ANITHA A	40	
4.	621116106004	ANJALI DEVI S	41	
5.	621116106005	ARUNA V	42	
6.	621116106006	HANNAH A	39	
7.	621116106007	JEYAPRIYANKA S	38	
8.	621116106008	KAVIYA R	45	
9.	621116106009	KAYALVIZHI P	47	
10.	621116106011	MAHESWARI P	42	
11.	621116106012	MERLIN JOYANA G	46	
12.	621116106013	MONISHA M	48	
13.	621116106014	NAGADHARSHINI.R	46	
14.	621116106015	NAVEENA A	43	
15.	621116106016	NIVETHA D	40	
16.	621116106018	PREETHA K	38	
17.	621116106019	RADHIKA V	45	
18.	621116106020	RAJPRIYA L	47	
19.	621116106021	RAMYA K	40	
20.	621116106022	RUBY METTILDA M	41	
21.	621116106023	SELSIA S	42	
22.	621116106024	SHAHIDHA L	43	
23.	621116106025	SIVASANKARI G	44	
24.	621116106026	SUBASHINI E	44	
25.	621116106027	SUVITHA V	46	
26.	621116106028	YASMIN M	48	
27.	621116106301	ANANDAESWARI J	38	
28.	621116106901	LEELA ROSLIN	39	

Course Co-Ordinator

*Wani*  
Dr. R. GURUMANTHAN, M.E., P.H.D., M.B.A., M.I.S.T.E., F.I.E.;  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

*Aswini*  
HOD



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

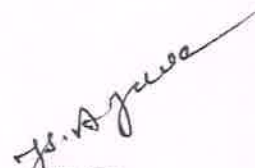
## Chinnasalem – 606201, Kallakurichi Dt.


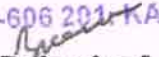
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.  
Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....Nagadhanshini . R.....  
studying .....IV - ECE..... has successfully completed.....30 hours..... Add-on Course  
on.....From Logic Gates to Processors..... conducted by the Department of  
.....ECE..... from 01.07.2019 to 05.07.2019 In the academic year .....2019 - 2020..

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.  
  
Principal



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### CERTIFICATE OF COMPLETION

This is to Certify that..... Anitha: A.....  
 studying ..... IV - ECE..... has successfully completed..... 30 hours..... Add-on Course  
 on..... From Logic Gates to Processors..... conducted by the Department of  
 ..... ECE..... from 01.07.2019.. to 05.07.2019.. In the academic year ...2019.....2020.....

  
 Course co-ordinator

  
 HOD

  
 Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,  
 PRINCIPAL  
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 CHINNASALEM - 606201, KALLAKURICHI DT  
 Principal



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 Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....S. Selsia.....  
 studying .....IV ECE..... has successfully completed.....30 hours..... Add-on Course  
 on.....From Logic Gates to Processors..... conducted by the Department of  
 .....ECE..... from 01.07.2019 to 05.07.2019 In the academic year ...2019 - 2020...

  
**Course co-ordinator**

  
**HOD**

  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI Dt.



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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **AC ANALYSIS**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/RL/2019

Date: 24.06.2019

## Requisition Letter

To .

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through .

Head of the Department,  
Department of Electrical and Electronics Engineering

Sub: Request for organising a 30 hours Add-on Course.

Dear Sir,

I, Mrs. Jayapriya T, Assistant Professor in the Department of Electrical and Electronics Engineering, would like to conduct a 30 hours add- on Course with the objective of explains how to analyze circuits that have alternating current (AC) voltage or current sources. Circuits with resistors, capacitors, and inductors are covered, both analytically and experimentally. Some practical applications in sensors are demonstrated.on "AC Analysis" from 01.07.2019 to 05.07.2019 for final year EEE students. In this regards, I request you to give permission for the Course.

Thanking you sir.

Your Sciencereely,

Mrs. Jayapriya.T.

Dr. R. GURUMANI, M.E., M.Tech., M.B.A., M.A., M.Phil.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.





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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/CC/2019

Date: 24.06.2019

## Add-on Course-Syllabus

Name of the Course: AC Analysis

Academic Year: 2019-20


### Course Objectives:

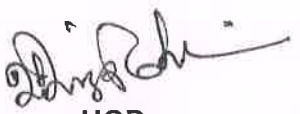
This course explains how to analyze circuits that have alternating current (AC) voltage or current sources. Circuits with resistors, capacitors, and inductors are covered, both analytically and experimentally. Some practical applications in sensors are demonstrated.

<b>Module -1 AC Circuit Analysis:</b> Introduction to Linear Circuits - AC Analysis-AC Circuits- Phasor-Impedance Circuit Analysis with AC Impedances-AC Circuit Analysis Example-Transfer Functions-Transfer Function Example	<b>6</b>
<b>Module- 2 Frequency Response:-</b> Frequency Response Module Overview- Frequency Spectrum-Frequency Spectra of Real Signals-Frequency Response: Linear-Frequency Response: Bode-Bode Plot of RC Circuits Bode Plot of RLC Circuits	<b>6</b>
<b>Module- 3 Response:</b> Linear-Frequency Response: Bode-Bode Plot of RC Circuits Bode Plot of RLC Circuits	<b>6</b>
<b>Module -4 Filters:</b> Low pass and High pass Filters-Low pass High pass Filter Design Lab Demo: Guitar String Filtering-Band pass and Notch Filters	<b>6</b>
<b>Module -5 Power:</b> Power Module Overview-Root Mean Square-Power Factor-Power Triangles-AC Power Transfer	<b>6</b>

Total Hours **30**

**Course Outcomes:** Students able to analyze circuits that have alternating current (AC) voltage or current sources. Circuits with resistors, capacitors, and inductors are covered, both analytically and experimentally

  
Course Co-ordinator.

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/CIR/2019

Date: 25.06.2019

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### CIRCULAR

The Department of Electrical and Electronics Engineering is offering "AC Analysis" as 30 hours Add-on Course for the final year EEE students from 01.07.2019 to 05.07.2019 for the academic year 2019-2020. Mrs. Jayapriya T, Assistant Professor /EEE will coordinate this course. Interested students can enrol their name for the Course with Mrs. Jayapriya T.


  
HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. To circulate among the department staff members.
5. File.

CC To:

To read IV /EEE class.

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M. ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



IDHAYA ENGINEERING COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.  
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

**Add on Course**  
**On**  
**"AC Analysis"**

**01st JULY 2019 - 05th JULY 2019**

**Mrs. Jayapriya T**  
**Assistant Professor /EEE**

**Venue: LH 03**

**Participants: Final year EEE students**

**Objectives:**

This course explains how to analyze circuits that have alternating current (AC) voltage or current sources. Circuits with resistors, capacitors, and inductors are covered, both analytically and experimentally. Some practical applications in sensors are demonstrated.

**Important Dates: Last date of Registration: 28.06.219**

**Contact: 04151-258325**

*Meen*  
Y.R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/SR/2019-20

Date: 28.06.2019

## Add -on Course

Name of the Course: **AC Analysis**

Academic Year: 2019-2020


Course Duration: **01.07.2019- 05.07.2019** (30 hours)


Year/Dept: IV/EEE

## Registered Students

S. No	Roll No.	Name
1.	62111610500	ABINAYA K
2.	62111610500	ANBUMAYIL A
3.	62111610500	ARUNA C
4.	62111610500	ARUNA M
5.	62111610500	ASHWINI A
6.	62111610500	BHARATHI K
7.	62111610500	GAYATHRI K
8.	62111610500	KALAIVANI A
9.	62111610501	LAVANYA B
10.	62111610501	MANGAIYARKARASI
11.	62111610501	NARMATHA K
12.	62111610501	PERIYANAYAKI T
13.	62111610501	PRITHIYA B
14.	62111610501	SARANYA S
15.	62111610501	SHAKINA K
16.	62111610501	SHALINI M K
17.	62111610502	SINEGA R
18.	62111610502	SRI SWARNA
19.	62111610502	SUBASHINI V
20.	62111610502	THEERTHANA K

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
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Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/SAL/2019-20

Date: 01.07.2019

## Add-on Course

Name of the Course: **AC Analysis**

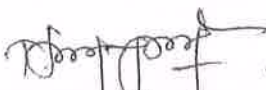
Academic Year: 2019-2020


Course Duration: 01.07.2019- 05.07.2019 (30 hours)

Year/Dept:IV/EEE

## Students Attendance List

S. No	Roll No.	Name	01.07.2019	02.07.2019	03.07.2019	04.07.2019	05.07.2019
1.	621116105001	ABINAYA K	/	/	/	/	/
2.	621116105002	ANBUMAYIL A	/	/	/	/	/
3.	621116105003	ARUNA C	/	/	/	/	/
4.	621116105004	ARUNA M	/	/	/	/	/
5.	621116105005	ASHWINI A	/	a	/	/	/
6.	621116105006	BHARATHI K	/	/	/	/	/
7.	621116105007	GAYATHRI K	/	/	/	/	/
8.	621116105009	KALAIVANI A	/	/	/	/	/
9.	621116105012	LAVANYA B	/	/	/	/	/
10.	621116105013	MANGAIYARKARASI S	/	/	/	/	/
11.	621116105014	NARMATHA K	/	/	/	/	/
12.	621116105015	PERIYANAYAKI T	/	/	/	/	/
13.	621116105016	PRITHIYA B	a	/	/	/	/
14.	621116105017	SARANYA S	/	/	/	/	/
15.	621116105018	SHAKINA K	/	/	/	a	a
16.	621116105019	SHALINI M K	/	/	/	/	/
17.	621116105020	SINEGA R	/	/	/	/	/
18.	621116105021	SRI SWARNA DHARSHINI K	/	/	/	/	/
19.	621116105022	SUBASHINI V	/	/	/	/	/
20.	621116105023	THEERTHANA K	/	/	/	/	/

  
Course Co-ordinator

  
HOD

  
Dr. R. GURUMANT, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.

PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
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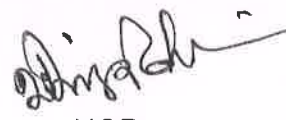
Ref: IECW/EEE/ER/2019

Date: 10.07.2019


## Event Report

Name of Activity: Add -On Course- <b>AC Analysis</b>			
Organized by: Department of Electrical and Electronics Engineering			
Date: 01.07.2019 to 05.07.2019		Total Participants: 20	
Resource Person: Details			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Mrs. Jayapriya T	Assistant Professor	Electrical and Electronics Engineering-IECW, Chinnasalem
<p>For the benefits of the students, The department of Electrical and Electronics Engineering, Idhaya Engineering College for Women, Chinnasalem, conducted as 30 hours Add- on Course on "AC Analysis" from 01.07.2019 to 05.07.2019. Mrs. Jayapriya T, Assistant Professor /EEE were the resource person. The students from final year EEE actively attended the course. The course ended with an outcome of Students able to analyze circuits that have alternating current (AC) voltage or current sources. Circuits with resistors, capacitors, and inductors are covered, both analytically and experimentally.</p>			

  
Course Co-ordinator

  
HOD

  
Principal

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.T.E., E.E.  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/ML/2019-20

Date: 10.07.2019

## Add -on Course

Name of the Course: **AC Analysis**

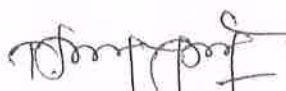
Academic Year: 2019-2020

Course Duration: **01.07.2019- 05.07.2019 (30 hours)**


Year/Dept:IV/EEE

## Mark List

S. No	Roll No.	Name	Marks $\leq 50$
1.	62111610500	ABINAYA K	38
2.	62111610500	ANBUMAYIL A	45
3.	62111610500	ARUNA C	47
4.	62111610500	ARUNA M	40
5.	62111610500	ASHWINI A	41
6.	62111610500	BHARATHI K	42
7.	62111610500	GAYATHRI K	43
8.	62111610500	KALAIVANI A	44
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10.	62111610501	MANGAIYARKARASI	46
11.	62111610501	NARMATHA K	48
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13.	62111610501	PRITHIYA B	42
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15.	62111610501	SHAKINA K	44
16.	62111610501	SHALINI M K	40
17.	62111610502	SINEGA R	47
18.	62111610502	SRI SWARNA	40
19.	62111610502	SUBASHINI V	41
20.	62111610502	THEERTHANA K	42

  
Course Co-ordinator

  
HOD

  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., MASTE., FIE.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.




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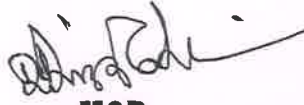
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### CERTIFICATE OF COMPLETION

This is to Certify that.....Gayathri . K.....  
studying .....IV - EEE..... has successfully completed.....30 hours..... Add-on Course  
on.....AC Analysis..... conducted by the Department of  
EEE..... from 01.07.2019 to 05.07.2019... In the academic year 2019-2020...

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASELEM-606201, KALLAKURICHI DT  
Principal





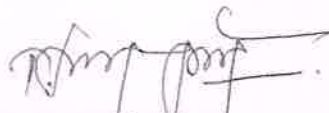
# IDHAYA ENGINEERING COLLEGE FOR WOMEN

## Chinnasalem – 606201, Kallakurichi Dt.


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Permanently Affiliated Programmes – CSE & ECE, 2(f) status of UGC & An ISO 9001:2015 Certified Institution.

### CERTIFICATE OF COMPLETION

This is to Certify that.....Periyannayaki . T.....  
studying ...IV - EEE..... has successfully completed...30 hours..... Add-on Course  
on.....AC Analysis..... conducted by the Department of  
.....EEE..... from 01.07.2019 to 05.07.2019.... In the academic year ...2019 - 2020...

  
Course co-ordinator

  
HOD

  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
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Principal



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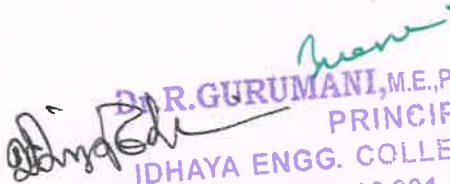
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### CERTIFICATE OF COMPLETION

This is to Certify that..... C. Aruna......

studying ..... IV - EEE..... has successfully completed..... 30 hours..... Add-on Course  
 on..... AC Analysis..... conducted by the Department of  
 ..... EEE..... from 01.07.2019...to 05.07.2019... In the academic year ... 2019 - 2020...

  
**Course co-ordinator**

  
**HOD** **R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
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**Principal**



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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

**IOT WITH RASPBERRY PI**



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/RL/2019

Date: 18/06 /2019

## Requisition Letter

To

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through

Head of the Department,  
Department of Computer Science Engineering.

Sub: Request for organising a 30 hours Add-on Course.

Dear Sir,

I, Mr.S. Jayaprakash, Associate Professor in the Department of Computer Science Engineering. would like to conduct a 30 hours Add-on Course with the objective of elucidates concepts related to Internet of Things. The students will get hands-on Experience in working with Raspberry Pi 3 and exploring IoT on "IOT with Raspberry Pi" Collaborated with GRAYWIRE SOLUTIONS, Chennai from 25-06-2019 to 29-06-2019 for III year CSE. In this regards, I request you to give permission for the course.

Thanking you sir,

Yours sincerely,

*Resoni*  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT**

*S. Jay*  
( Mr. S. Jayaprakash)



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/CC/2019-20

Date: 18.06.2019

## Add-on Course

Name of the Course: **IOT with Raspberry Pi**

Academic Year: 2019-20

### Course Objectives:

This course elucidates concepts related to Internet of Things. The students will get hands-on Experience in working with Raspberry Pi and exploring IoT.

<b>Topic-I</b>	<b>Overview of IoT</b>	<b>5</b>
	Understanding IoT fundamentals, IOT Architecture protocols, Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies	
<b>Topic-II</b>	<b>Getting started with Raspberry Pi</b>	<b>5</b>
	Comparison of various Rpi Models, Understanding SoC architecture and SoCs used in Raspberry Pi, Pin Description of Raspberry Pi, On-board components of Rpi, Projects using Raspberry Pi	
<b>Topic-III</b>	<b>Booting Up RPi- Operating System and Linux Commands</b>	<b>5</b>
	Linux- Introduction, Architecture, File System, Raspbian O.S.- Introduction, Tools like Leafpad Editor, Installing Raspbian on Pi, First boot and Basic Configuration of Pi, Popular Linux Commands.	
<b>Topic-IV</b>	<b>Working with RPi using Python and Sensing Data using Python</b>	<b>5</b>
	Introduction, Python vs. Other Languages, Applications of Python, Understanding Python, Interpreted Languages, Variables, Keywords, Operators and Operands	
	Data Types in Python, Importing Libraries, Flow Control, Conditional Statement, Loops, Sensors Interfacing- Temperature and Humidity Sensor (DHT11), Motion Sensor, (PIR), Obstacle detection using Ultrasonic sensor, etc. Communicating using RPi- GSM interfacing, Accessing on-board Wi-Fi, Connecting Database with RPi	
<b>Topic-V</b>	<b>Language- Imbibing RPi with C</b>	<b>5</b>
	C Basics- compiled language, C Concepts- data types, variables,	

*Dr. R. Gurumani*  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
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conditional statement, loops, Library installation, Compiling C programs, Using Wiring Pi for GPIO Programming, Interfacing Rpi using C.

### Topic-VI IoT Design using Raspberry Pi

5

IoT Applications based on Pi, LAMP Web-server, GPIO Control over Web Browser Creating Custom Web Page for LAMP, Communicating data using on-board module Home automation using Pi, Node-RED, MQTT Protocol, Using Node-RED Visual Editor on Rpi.


**Total Hours 30**

#### Course Outcomes:

After completion of the course, the students will be able to understand the working of Raspberry Pi, its features and how various components can be used with Pi. The students Will be able to understand IoT practically.

  
Course Co-ordinator

  
HOD

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/CSE/CIR/2019

Date: 19/06 /2019

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


### CIRCULAR

The Department of Computer Science and Engineering Collaborated with Graywire Solutions, Chennai is offering "IOT with Raspberry Pi" as 30 hours Add-on Course for third year CSE students from 25.06.2019 to 29.06.2019 for an academic year 2019-2020. Mr. S. Jayaprakash, Associate Professor /CSE will coordinate this course. Interested students can enrol their name for the course with Mr. S. Jayaprakash.

  
HOB

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. To circulate among the department staff members.
5. File.

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT**

CC To:

To read third year CSE class.



**IDHAYA ENGINEERING COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.**  
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**Add on Course**  
**On**

***"IOT with Raspberry Pi"***

**25th June 2019 - 29th June 2019**

**Mr.S. Jayaprakash**  
**Associate Professor /CSE**

**Venue: LH 11**

**Participants:Third year CSE students**

**Objectives:**

**This course elucidates concepts related to Internet of Things.**

**The students will get hands-on Experience in working with**

**Raspberry Pi and exploring IoT.**

**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
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**CHINNASALEM-606 201, KALLAKURICHI DT.**

**Important Dates: Last date of Registration:22.06.219**

**Contact: 04151-258325**





# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/SR/2019-20

Date: 22.06.2019

## Add-on Course

Name of the Course: **IOT with Raspberry Pi**

Academic Year: 2019-2020

Course Duration: 25-06-2019 to 29-06-2019 (30 hours)

Year/Dept.: III/CSE

## Registered Students

S. No	Roll No.	Name
1.	621117104001	AARTHI V
2.	621117104002	AKSHAYA K
3.	621117104003	ANISHA V
4.	621117104004	ANITHA D
5.	621117104006	ANUJAYA K
6.	621117104009	BUVANESWARI K
7.	621117104010	DAISY C
8.	621117104011	DEEPIKA M
9.	621117104013	GAYATHRI B
10.	621117104014	GOODLUCK V
11.	621117104015	GOWRI K
12.	621117104016	INDHIRA K
13.	621117104017	INDHUJA S
14.	621117104019	JANANI N
15.	621117104020	JENIFER A
16.	621117104021	JENIFER NAYAGI S
17.	621117104022	JENIFFER RANJINI A
18.	621117104023	KANIMOZHI P
19.	621117104027	MANI BHARATHI D
20.	621117104028	MATHESHWARI C
21.	621117104029	MUTHULAKSHMI M
22.	621117104030	NANDHINI E
23.	621117104031	PADHMA J
24.	621117104033	PAVITHRA.D
25.	621117104034	PRABA B
26.	621117104035	PRAVEENA P
27.	621117104038	PRIYA C
28.	621117104039	PRIYA R
29.	621117104040	PRIYADHARSHINI.A
30.	621117104041	RAMYA P
31.	621117104042	RISWANA S
32.	621117104043	ROMILA R
33.	621117104044	SABITHRA K
34.	621117104046	SARAL JAYARANI A
35.	621117104048	SARULA
36.	621117104050	SHALINI S
37.	621117104052	SOWBARNIKA A

*meenu*  
DIAK GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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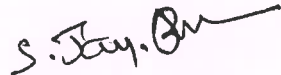
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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

38.	621117104053	SOWNDHARYA V
39.	621117104055	TAMILSELVI P
40.	621117104056	UDHAYANILA U
41.	621117104058	VASANTHAPRIYA V
42.	621117104059	VIJAYALAKSHMI S P
43.	621117104060	VINTHIYA M

  
Course Co-ordinator

  
HOD

*Renai*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/SAL/2019-20

Date: 25.06.2019

## Add-on Course

Name of the Course: IOT with Raspberry Pi

Academic Year: 2019-2020

Course Duration: 25-06-2019 to 29-06-2019 (30 hours)

Year/Dept.: III/CSE

## Students Attendance List

S. No	Roll No.	Name	25.06.2019	26.06.2019	27.06.2019	28.06.2019	29.06.2019
1.	621117104001	AARTHI V	/	/	/	/	/
2.	621117104002	AKSHAYA K	/	/	/	/	/
3.	621117104003	ANISHA V	/	a	/	/	/
4.	621117104004	ANITHA D	/	/	/	/	/
5.	621117104006	ANUJAYA K	/	/	/	/	a
6.	621117104009	BUVANESWARI K	/	/	/	/	/
7.	621117104010	DAISY C	/	/	/	/	/
8.	621117104011	DEEPIKA M	/	/	/	/	/
9.	621117104013	GAYATHRI B	/	/	/	/	/
10.	621117104014	GOODLUCK V	/	/	/	/	/
11.	621117104015	GOWRI K	/	/	/	/	/
12.	621117104016	INDHIRA K	/	/	/	/	/
13.	621117104017	INDHUJA S	/	/	/	/	/
14.	621117104019	JANANI N	/	/	/	/	/
15.	621117104020	JENIFER A	/	/	/	/	/
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35.	621117104048	SARULATHA K	/	/	/	/	/
36.	621117104050	SHALINI S	/	/	/	/	/

*[Signature]*  
D.R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., P.E.  
PRINCIPAL  
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42.	621117104059	VIJAYALAKSHMI S P	/	/	/	a	/
43.	621117104060	VINTHIYA M	/	/	/	/	/

*S. Jay. R.*  
Course Co-ordinator

*[Signature]*  
HOD

*R. Guramani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
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Phone: 04151-258325, 258326

Website: www.iecw.edu.in


Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE /ER/2019

Date: 03.07.2019

## Event Report

Name of Activity: Add-on Course: <b>IOT with Raspberry Pi</b>			
Organized by: Department of Computer Science and Engineering			
Date: 25-06-2019 to 29-06-2019		Total Participants: 43	
Resource Person:			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Mr.S. Jayaprakash	Associate Professor.	Department of Computer Science and Engineering, IECE/Chinnasalem.
2.	Mr.Sivakumar .	Managing Director	Graywire Solutions, Chennai
<p>For the benefits of student's the Department of Computer Science and Engineering, Idhaya Engineering College for Women, Chinnasalem, conducted 30 hours Add-on Course on "IOT with Raspberry Pi" from 25-06-2019 to 29-06-2019. Mr.S. Jayaprakash, Associate Professor/CSE and Mr.Sivakumar, Managing director Graywire Solutions, Chennai Was the resource persons. The students from third year CSE were actively attended the course. The training session includes the theoretical explanation of the IOT with Raspberry Pi with programs, drive installation, Interface sensor and Serial communication with IOT with Raspberry Pi and students know working of Raspberry Pi, its features and how various components can be used with Pi. The students Will be able to understand practically.</p>			

S. Jay.   
Course Co-ordinator

  
HOD

  
Principal

Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
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Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/CSE/ML/2019

Date: 02.07.2019

## Add-on Course

Name of the Course: **IOT with Raspberry Pi**

Academic Year: 2019-2020

Course Duration: 25-06-2019 to 29-06-2019 (30 hours)

Year/Dept.: III/CSE

## Mark List

S. No	Roll No.	Name	Marks
1.	621117104001	AARTHI V	39
2.	621117104002	AKSHAYA K	38
3.	621117104003	ANISHA V	45
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5.	621117104006	ANUJAYA K	42
6.	621117104009	BUVANESWARI K	46
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10.	621117104014	GOODLUCK V	42
11.	621117104015	GOWRI K	39
12.	621117104016	INDHIRA K	44
13.	621117104017	INDHUJA S	40
14.	621117104019	JANANI N	43
15.	621117104020	JENIFER A	39
16.	621117104021	JENIFER NAYAGI S	44
17.	621117104022	JENIFFER RANJINI	46
18.	621117104023	KANIMOZHI P	43
19.	621117104027	MANI BHARATHI D	40
20.	621117104028	MATHESHWARI C	38
21.	621117104029	MUTHULAKSHMI M	45
22.	621117104030	NANDHINI E	41
23.	621117104031	PADHMA J	42
24.	621117104033	PAVITHRA.D	39
25.	621117104034	PRABA B	38
26.	621117104035	PRAVEENA P	45
27.	621117104038	PRIYA C	47
28.	621117104039	PRIYA R	42
29.	621117104040	PRIYADHARSHINI.A	46
30.	621117104041	RAMYA P	48
31.	621117104042	RISWANA S	46
32.	621117104043	ROMILA R	43
33.	621117104044	SABITHRA K	40
34.	621117104046	SARAL JAYARANI A	38
35.	621117104048	SARULATHA K	45
36.	621117104050	SHALINI S	47
37.	621117104052	SOWBARNIKA A	40

Dr. R. GURUMANI, Ph.D., M.B.A., M.ISTE., F.I.E.,  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

38.	621117104053	SOWNDHARYA V	41
39.	621117104055	TAMILSELVI P	42
40.	621117104056	UDHAYANILA U	43
41.	621117104058	VASANTHAPRIYA V	44
42.	621117104059	VIJAYALAKSHMI S	44
43.	621117104060	VINTHIYA M	46

  
Course Co-ordinator

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201. KALLAKURICHI DT.**

  
HOD



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### CERTIFICATE OF COMPLETION

This is to Certify that.....*A. Saral Jayarani*.....  
 studying .....*III - CSE*..... has successfully completed.....*30 hours*..... Add-on Course  
 on.....*IoT with Raspberry Pi*..... conducted by the Department of  
 .....*CSE*..... from *25.06.2019* to *29.06.2019*... In the academic year ...*2019 - 2020*....

*S. Jay. On*  
**Course co-ordinator**

*[Signature]*  
**HOD**

*[Signature]*  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.**  
**PRINCIPAL**  
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**Principal**





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### CERTIFICATE OF COMPLETION

This is to Certify that.....*A. Jenifer*.....  
 studying .....*III - CSE*..... has successfully completed.....*30 hours*..... Add-on Course  
 on.....*IOT with Raspberry Pi*..... conducted by the Department of  
 .....*CSE*..... from *25.06.2019* to *29.06.2019*. In the academic year ...*2019 - 2020*...

*S. Jay. B*  
 Course co-ordinator

*h-02*  
 HOD

*Jeena*  
 Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.  
 PRINCIPAL  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT  
*Jeena*  
 Principal



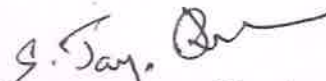
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### CERTIFICATE OF COMPLETION

This is to Certify that.....S. Jenifer Nayagi.....  
studying .....III - CSE..... has successfully completed.....30 hours..... Add-on Course  
on.....IoT with Raspberry Pi..... conducted by the Department of  
.....CSE..... from ..25.06.2019 to ..29.06.2019.. In the academic year ...2019 - 2020.....

  
Course co-ordinator

  
HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
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Principal



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **ANTENNA DESIGN USING HFSS**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/ECE/RL/2019

Date: 18.06.2019

## Requisition Letter

To.

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through

Head of the Department,  
Department of Electronics and Communication Engineering,

Sub: Request for organising a 30 hours add-on course.

Dear Sir,

I Ms. J. Sumitha Josphine Assistant Professor in the Department of Electronics and Communication Engineering. I would like to organize a 30 hours Add- on Course with the objective of The desired micro strip patch antenna design is initially simulated by using HFSS simulator and patch antenna is realized as per design requirements on "Antenna Design Using HFSS" from 25-06-2019 to 29-06-2019 for third year ECE. In this regards, I request you to give permission for the Course.

Thanking you sir

Your Sincerely,

(Ms. J. Sumitha Josphine)

  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI**



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/ECE/CC/2019-20

Date: 18.06.2019

## Add-on Course-Syllabus

Name of the Course: **Antenna Design Using HFSS**

Academic Year: 2019-20

**Course Objectives:** The desired micro strip patch antenna design is initially simulated by using HFSS simulator and patch antenna is realized as per design requirements. The student will depth knowledge in all topic in this course.

- Module -1 Fundamentals of Antenna:** Fundamental Theory of antenna: 5  
Reciprocity theorem, antenna equivalent circuit, Classification of antennas, Special types of antennas for different frequency bands.
- Module- 2 Antenna Parameters:** Radiation Impedance, Radiation Pattern, 5  
Antenna Impedance, Bandwidth, Directivity, Gain, Antenna efficiency, Radiation Efficiency, Antenna Polarization, Antenna Apertures, Antenna temperature, near-field and far-field concepts, and radiation mechanism
- Module- 3 Antenna Arrays:** Two-Element Array N-Element Linear Array: 5  
Uniform Amplitude and Spacing N Element Linear Array: Directivity Design Procedure, N Element Linear Array: Three-Dimensional Characteristics, Rectangular-to-Polar Graphical Solution, N-Element Linear Array: Uniform Spacing, Non uniform, Binomial Array Amplitude, Planar and Circular Arrays.
- Module -4 Introduction to HFSS:** The mathematical method used by HFSS, The 5  
adaptive solution process and its importance to HFSS, The Six general steps in HFSS simulation, The three solution types in HFSS, available boundaries with in HFSS, Excitation in HFSS, HFSS Solution setup, HFSS Post Processing.

*Mani*  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

**Module -5** **Design of Microstrip Antennas using HFSS** **5**

Feeding methods, Method of analysis, Rectangular and Circular Patch, Quality Factor, Bandwidth, and Efficiency, Input Impedance, Coupling, Circular Polarization, Arrays and Feed Networks, Multi Band, Recent advances in fractal antenna and patch array.

**Module -6** **Fabrication and Testing** **5**

Method of Fabrication-Chemical Etching, Photo Lithography and Computer controlled coordinatograph. Testing of Antenna-Network Analyzer: Scalar Network Analyzer (SNA), Vector Network Analyzer (VNA) and Large Signal Network Analyzer (LSNA).

Total Hours **30**

**Course Outcomes:** After completion of the course, the students will be able to understand the working of Design of Micro strip Antennas using HFSS, Fundamentals of Antenna, Antenna Arrays, HFSS Fabrication and Testing.

Course Co-ordinator.

HOD

**Dr.R.GURUMANI**,M.E.,Ph.D.,M.B.A.,M.ISTE.,F.I.E.,  
**PRINCIPAL**

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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/ECE/CIR/2019

Date: 19.06.2019

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CIRCULAR

The Department of Electronics and Communication Engineering is offering "Antenna Design Using HFSS" as 30 hours add-on course for third year ECE students from 25-06-2019 to 29-06-2019 for the academic year 2019-2020. Ms. J. Sumitha Josphine., Assistant Professor /ECE will coordinate this course. Interested students can enrol your name for the course with Ms. J. Sumitha Josphine.

*J. Sumitha Josphine*  
HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. To circulate among the department staff members.
5. File.

CC To:

To read third year ECE class.

*R. Gurumani*  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
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TAMIL NADU, INDIA.

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University, Chennai.

# Add on Course On *"Antenna Design Using HFSS"*

25th JUNE 2019 - 29th JUNE 2019

*Ms. J. Sumitha Josphine*  
*Assistant Professor /ECE*

**Venue: LH 07**

**Participants: Third year ECE students**

### Objectives:

The desired micro strip patch antenna design is initially simulated by using HFSS simulator and patch antenna is realized as per design requirements.  
The student will depth knowledge in all topic in this course.

**Important Dates: Last date of Registration: 24.06.219**

**Contact: 04151-258325**

*Princip*  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/SR/2019

Date: 24.06.2019

## Add On Course

Name of the Course: **Antenna Design Using HFSS**


Academic Year: 2019-20

Course Duration: 25-06-2019 to 29-06-2019 (30 hours)

Year/Dept.: III/ECE

## Registered Students

S. No	Roll No.	Name
1.	621117106002	ALAMELU A
2.	621117106003	AMALA S
3.	621117106004	ANITHA P
4.	621117106005	ANJUGAM S
5.	621117106008	BHARATHI MEENA K
6.	621117106009	BHARATHI T
7.	621117106010	DEVIPRIYA G
8.	621117106013	GOMATHI P
9.	621117106014	HARANISHWARI R
10.	621117106016	KAVIYA V
11.	621117106017	KOWSALYA K
12.	621117106018	MADHURASREE G
13.	621117106019	MEENA K
14.	621117106020	NANDHINI A
15.	621117106022	PUNITHA D
16.	621117106023	RANJITHA R
17.	621117106024	RASIYA P
18.	621117106025	SELVABHARATHI T
19.	621117106026	SINDHUBALA B
20.	621117106027	SNEKA A
21.	621117106028	SRIMATHI M
22.	621117106029	SUBHASHINI S
23.	621117106030	SUBASRI S
24.	621117106031	SUGANTHI C
25.	621117106032	SUMITHRA M

  
Course Co-ordinator

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
PRINCIPAL

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Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE/SAL/2019

Date: 25.06.2019

## Add On Course

Name of the Course: **Antenna Design Using HFSS**

Academic Year: 2019-20

Course Duration: 25-06-2019 to 29-06-2019 (30 hours)

Year/Dept.: III/ECE

## Students Attendance List

S. No	Roll No.	Name	25.06.2019	26.06.2019	27.06.2019	28.06.2019	29.06.2019
1.	621117106002	ALAMELU A	/	/	/	/	/
2.	621117106003	AMALA S	/	/	/	/	/
3.	621117106004	ANITHA P	/	/	/	/	/
4.	621117106005	ANJUGAM S	/	/	/	/	/
5.	621117106008	BHARATHI MEENA K	/	/	/	/	/
6.	621117106009	BHARATHI T	/	/	/	/	/
7.	621117106010	DEVIPRIYA G	/	/	/	/	/
8.	621117106013	GOMATHI P	/	/	/	/	/
9.	621117106014	HARANISHWARI R	/	/	/	/	/
10.	621117106016	KAVIYA V	/	/	/	/	/
11.	621117106017	KOWSALYA K	/	/	/	/	/
12.	621117106018	MADHURASREE G	/	/	/	/	/
13.	621117106019	MEENA K	/	/	/	/	/
14.	621117106020	NANDHINI A	/	/	/	/	/
15.	621117106022	PUNITHA D	/	/	/	/	/
16.	621117106023	RANJITHA R	/	/	/	/	/
17.	621117106024	RASIYA P	/	/	/	/	/
18.	621117106025	SELVABHARATHI T	/	/	/	/	/
19.	621117106026	SINDHUBALA B	/	/	/	/	/
20.	621117106027	SNEKA A	/	/	/	/	a
21.	621117106028	SRIMATHI M	/	/	/	/	/
22.	621117106029	SUBHASHINI S	/	/	/	/	/
23.	621117106030	SUBASRI S	/	/	/	/	/
24.	621117106031	SUGANTHI C	a	/	/	/	/
25.	621117106032	SUMITHRA M	/	/	/	/	/

Course Co-ordinator

*Mani*  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

*J. Jayaraj*  
HOD



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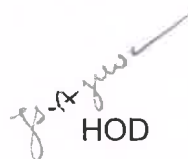
Ref: IECW/ECE /ER/2019

Date: 03.07.2019

## Event Report

Name of Activity: Add-on Course: Antenna Design Using HFSS			
Organized by: Electronics and Communication Engineering			
Date: 25-06-2019 to 29-06-2019		Total Participants: 25	
Resource Person: Details			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Ms.J. Sumitha Josphine	Assistant Professor	Electronics and Communication Engineering Idhaya Engineering College for Women, Chinnasalem – 606201
<p>For the benefits of student's The Department of Electronics and Communication Engineering, Idhaya Engineering College for Women, Chinnasalem, conducted as 30 hours Add-on Course on "Antenna Design Using HFSS" from 25-06-2019 to 29-06-2019. Ms.J. Sumitha Josphine, Assistant Professor /ECE were the resource persons. The students from third year ECE were actively attended the course. The training session includes the theoretical and practical explanation of Antenna Design Using HFSS and understand the working of Design of Micro strip Antennas using HFSS, Fundamentals of Antenna, Antenna Arrays, HFSS Fabrication and Testing.</p>			

  
Course Co-ordinator

  
HOD

  
Principal

**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**

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Ref: IECW/ECE/ML/2019

Date: 03.07.2019

## Add-on Course

Name of the Course: **Antenna Design Using HFSS**

Academic Year: 2019-20

Course Duration: 25-06-2019 to 29-06-2019 (30 hours)

Year/Dept.: III/ECE

## Mark List

S. No	Roll No.	Name	Marks
1.	621117106002	ALAMELU A	48
2.	621117106003	AMALA S	45
3.	621117106004	ANITHA P	44
4.	621117106005	ANJUGAM S	46
5.	621117106008	BHARATHI MEENA K	40
6.	621117106009	BHARATHI T	41
7.	621117106010	DEVIPRIYA G	42
8.	621117106013	GOMATHI P	39
9.	621117106014	HARANISHWARI R	44
10.	621117106016	KAVIYA V	46
11.	621117106017	KOWSALYA K	40
12.	621117106018	MADHURASREE G	41
13.	621117106019	MEENA K	42
14.	621117106020	NANDHINI A	39
15.	621117106022	PUNITHA D	38
16.	621117106023	RANJITHA R	45
17.	621117106024	RASIYA P	47
18.	621117106025	SELVABHARATHI T	42
19.	621117106026	SINDHUBALA B	44
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21.	621117106028	SRIMATHI M	40
22.	621117106029	SUBHASHINI S	41
23.	621117106030	SUBASRI S	42
24.	621117106031	SUGANTHI C	43
25.	621117106032	SUMITHRA M	44

  
Course Co-ordinator

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.S.** HOD  
PRINCIPAL

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### CERTIFICATE OF COMPLETION

This is to Certify that.....Amala S.....  
 studying III - ECE..... has successfully completed 30 hours..... Add-on Course  
 on Antenna Design Using HFSS..... conducted by the Department of  
ECE..... from 25.06.2019 to 29.06.2019.. In the academic year 2019 - 2020.....

  
**Course co-ordinator**

  
**HOD**

  
**Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.  
**Principal**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN


## Chinnasalem – 606201, Kallakurichi Dt.


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### CERTIFICATE OF COMPLETION

This is to Certify that G. Devipriya  
 studying III - ECE has successfully completed 30 hours Add-on Course  
 on Antenna Design Using HFSS conducted by the Department of  
ECE from 25.06.2019 to 29.06.2019 In the academic year 2019 - 2020

  
**Course co-ordinator**

  
**HOD**

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL,**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606201, KALLAKURICHI DT.**  
**Principal**



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### CERTIFICATE OF COMPLETION

This is to Certify that.....K. Meena......  
 studying .....III - ECE..... has successfully completed.....30 hours..... Add-on Course  
 on.....Antenna Design Using HFSS...... conducted by the Department of  
 .....ECE..... from ..25.06.2019 to ..29.06.2019 In the academic year ..2019 - 2020...

**Course co-ordinator**

**HOD**

**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MIST**  
**Principal**

**PRINCIPAL**  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.



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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

---

## **FUNDAMENTALS OF INDUSTRIAL AUTOMATION**





# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/EEE/RL/2019

Date: 17.06.2019

## Requisition Letter

To

The Principal,  
Idhaya Engineering College for Women,  
Chinnasalem – 606201.

Through


Head of the Department,  
Department of Electrical and Electronics Engineering

Sub: Request for conducting a 30 hours Add-on Course.

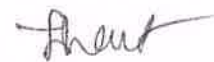
Dear Sir,

I, Mr. S. Silambarasan, Assistant Professor in the Department of Electrical and Electronics Engineering, would like to conduct a 30 hours Add-on Course with the objective of the program PLC module using ladder logic / FBD / Statement Listing methods through a powerful software packages and enhance the student knowledge on integrated industrial automation using PLC on "Fundamentals of Industrial automation" from 25-06-2019 to 29-06-2019 for third year EEE students. In this regards, I request you to give permission for the Course.

Thanking you sir.

  
**Dr. R. GURUMANI**, M.E., Ph.D., M.B.A., M.JSTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT

Yours sincerely



Mr. S. Silambarasan,



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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref: IECW/EEE/CC/2019-20

Date: 17.06.2019

## Add-on Course-Syllabus

Name of the Course: **Fundamentals of Industrial automation**

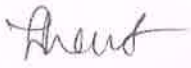
**Academic Year: 2019-20**


**Course Objectives:** To make the students program PLC module using ladder logic / FBD / Statement Listing methods through a powerful software packages and enhance the student knowledge on integrated industrial automation using PLC.

<b>Course Content:</b>	1. Introduction to PLC	2
	2. Installation and wiring guidelines	2
	3. Addressing & Hardware configuration	2
	4. CPU Block diagram & Memory	2
	5. NO/NC & RLO Concept	2
	6. Bit Logic Instructions & Elementary data formats	2
	7. Load & Transfer Instructions	2
	8. Comparison operation	2
	9. Programming Blocks & Symbols	2
	10. Timer and Counters	2
	11. Data blocks	2
	12. Functions & Function Blocks	2
	13. Integer & Floating point math operations	2
	14. Conversion Operations	2
	15. Analog Value processing	2

Total Hours 30

**Course Outcomes:** At the end of the course the students will able to Program a PLC module and Explain about integrated industrial automation using PLC.

  
Course Co-Ordinator.

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

  
HOD



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Phone: 04151-258325, 258326

Website: [www.iecw.edu.in](http://www.iecw.edu.in)

Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)


Ref: IECW/EEE/CIR/2019

Date: 18.06.2019

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### CIRCULAR

The Department of Electrical and Electronics Engineering is offering "Fundamentals of Industrial automation" as 30 hours Add-on Course for third year EEE students from 25-06-2019 to 29-06-2019 for the academic year 2019-2020. Mr. S. Silambarasan, Assistant Professor /EEE will coordinate this course. Interested students can enrol their name for the course with Mr. S. Silambarasan.


  
HOD

Copy To:

1. Secretary for her kind information.
2. Principal
3. Vice Principal.
4. To circulate among the department staff members.
5. File.

CC To:

To read III /EEE class.

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



**IDHAYA ENGINEERING COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.**  
**Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.**

**Add on Course**  
**On**  
**"Fundamentals of**  
**Industrial automation "**

**25th June 2019 - 29th June 2019**

**Mr. S. Silambarasan**  
**Assistant Professor /EEE**

**Venue: LH 04**

**Participants: Third year EEE students**

**Objectives:**

**To make the students program PLC module using ladder logic /  
FBD / Statement Listing methods through a powerful software  
packages and enhance the student knowledge on integrated  
industrial automation using PLC**

*Praveen*  
**Dr. R. GURUMANI, M.E., Ph.D.**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DISTRICT**

**Important Dates:**

**Last date of Registration- 22.06.219**

**Contact: 04151-258325**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/SR/2019-20

Date: 22.06.2019

## Add-on Course

Name of the Course: **Fundamentals of Industrial automation**

Academic Year: 2019-2020

Course Duration: 25-06-2019 - 29-06-2019 (30 hours)


Year/Dept: III/EEE

## Registered Students

S. No	Roll No.	Name
1.	621117105002	BHARANI P
2.	621117105003	CELCIYA L
3.	621117105004	GAYATHRI V
4.	621117105005	JEEVA Y
5.	621117105006	KALVI P
6.	621117105007	KOKILA S
7.	621117105008	POONGUZHALI P
8.	621117105010	PRIYADHARSHNI
9.	621117105011	RAJESHWARI R
10.	621117105012	SANTHINI A
11.	621117105013	SHAKILA ANANTHA
12.	621117105014	SUGANYA P
13.	621117105015	SUVITHA S
14.	621117105016	UDHAYANILA V
15.	621117105017	VEERAMMAL P

Course Co-ordinator

HOD

  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/SAL/2019-20

Date: 25.06.2019

## Add-on Course

Name of the Course: **Fundamentals of Industrial automation**

Academic Year: 2019-2020

Course Duration: 25-06-2019 - 29-06-2019 (30 hours)

Year/Dept: III/EEE

## Attendance List

S. No	Roll No.	Name	25.06.2019	26.06.2019	27.06.2019	28.06.2019	29.06.2019
1.	621117105002	BHARANI P	/	/	/	/	/
2.	621117105003	CELCIYA L	/	/	/	/	/
3.	621117105004	GAYATHRI V	/	/	/	/	/
4.	621117105005	JEEVA Y	/	/	/	a	/
5.	621117105006	KALVI P	/	/	/	/	/
6.	621117105007	KOKILA S	/	/	/	/	/
7.	621117105008	POONGUZHALI P	/	/	/	/	/
8.	621117105010	PRIYADHARSHNI	/	/	/	/	/
9.	621117105011	RAJESHWARI R	/	/	/	/	/
10.	621117105012	SANTHINI A	/	a	/	/	/
11.	621117105013	SHAKILA ANANTHA	/	/	/	/	/
12.	621117105014	SUGANYA P	/	/	/	/	/
13.	621117105015	SUVITHA S	/	/	/	/	/
14.	621117105016	UDHAYANILA V	/	/	/	/	/
15.	621117105017	VEERAMMAL P	/	/	/	/	/

*Aneel*

Course Co-ordinator

*Dr. R. Gurumani*

HOD

*Dr. R. Gurumani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/ECE /ER/2019

Date: 03.07.2019

## Event Report

Name of Activity: Add-on Course: <b>Fundamentals of Industrial automation</b>			
Organized by: Department of Electrical and Electronics Engineering			
Date: 25-06-2019 to 29-06-2019		Total Participants: 15	
Resource Person: Deatils			
S. No.	Name of the Resource Persons	Designation	Institution & Place
1.	Mr. S. Silambarasan	Assistant Professor	Electrical and Electronics Engineering IECW, Chinnasalem
<p>For the benefits of student's the Department of Electrical and Electronics Engineering, Idhaya Engineering College for Women, Chinnasalem, conducted as 30 hours Add-on Course on "Fundamentals of Industrial automation" from 25-06-2019 to 29-06-2019. Mr. S. Silambarasan, Assistant Professor /EEE were the resource persons. The students from third year EEE were actively attended the course. The training session includes the theoretical and practical explanation of Fundamentals of Industrial automation and students are able to Program a PLC module and Explain about integrated industrial automation using PLC.</p>			

Course Coordinator

HOD

Principal

Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.IE.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.



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Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Email ID: idhaya@iecw.edu.in

Ref: IECW/EEE/ML/2019-20

Date: 29.07.2019

## Add-on Course

Name of the Course: **Fundamentals of Industrial automation**

Academic Year: 2019-2020

Course Duration: 25-06-2019 - 29-06-2019 (30 hours)

Year/Dept: III/EEE

## Mark List

S. No	Roll No.	Name	Marks <i>50</i>
1.	621117105002	BHARANI P	43
2.	621117105003	CELCIYA L	40
3.	621117105004	GAYATHRI V	38
4.	621117105005	JEEVA Y	45
5.	621117105006	KALVI P	47
6.	621117105007	KOKILA S	40
7.	621117105008	POONGUZHALI P	41
8.	621117105010	PRIYADHARSHNI	42
9.	621117105011	RAJESHWARI R	43
10.	621117105012	SANTHINI A	42
11.	621117105013	SHAKILA ANANTHA	39
12.	621117105014	SUGANYA P	43
13.	621117105015	SUVITHA S	40
14.	621117105016	UDHAYANILA V	38
15.	621117105017	VEERAMMAL P	45

*Heud*

Course Co-ordinator

*Dr. R. Gurumani*

HOD

*Dr. R. Gurumani*  
DR. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.





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## Chinnasalem – 606201, Kallakurichi Dt.


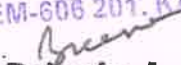
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### CERTIFICATE OF COMPLETION

This is to Certify that.....Celciya L......  
studying .....III - EEE..... has successfully completed.....30 hours..... Add-on Course  
on.....Fundamentals of Industrial Automation..... conducted by the Department of  
.....EEE..... from 25.06.2019 to 29.06.2019.... In the academic year 2019 - 2020....

  
Course co-ordinator

  
HOD

  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
PRINCIPAL  
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### CERTIFICATE OF COMPLETION

This is to Certify that.....Suvitha. S......  
studying .....111 - EEE..... has successfully completed.....30 hours..... Add-on Course  
on.....Fundamentals of Industrial Automation..... conducted by the Department of  
.....EEE..... from 25.06.2019 to 29.06.2019.. In the academic year ...2019 - 2020...

Anand  
Course co-ordinator

[Signature]  
HOD

[Signature]  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606201, KALLAKURICHI DT.  
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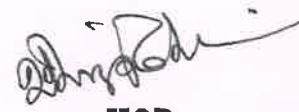
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### CERTIFICATE OF COMPLETION

This is to Certify that.....P. Kalvi.....  
 studying .....III - EEE..... has successfully completed.....30 hours..... Add-on Course  
 on.....Fundamentals of Industrial Automation..... conducted by the Department of  
 .....EEE..... from 25.06.2019 to 29.06.2019: In the academic year ...2019-2020..

  
**Course co-ordinator**

  
**HOD**

  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., MISTE** **Principal**  
**PRINCIPAL**  
 IDHAYA ENGG. COLLEGE FOR WOMEN  
 CHINNASALEM-606 201, KALLAKURICHI DT.



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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

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## **NATIONAL PROGRAMME ON TECHNOLOGY ENHANCED LEARNING**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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Email ID: [indhaya@iecw.edu.in](mailto:indhaya@iecw.edu.in)

Ref:IECW/NPTEL/2020

## NPTEL online Certificate Programme

Academic Year: 2019-2020

S. No	Name of the Course	Course Duration	Name of the student
1.	Developing Soft Skill and Personality	8 weeks	AFREEN.M

  
PRINCIPAL

**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT.**

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL19HS32S52320007

To  
AFREEN.M  
16/23 VILANTHANGAL ROAD,  
KALLAKURICHI  
VILLUPURAM  
TAMIL NADU  
606202  
PH. NO :9344389933

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**AFREEN.M**

for successfully completing the course

## Developing Soft Skills and Personality

with a consolidated score of **65** %

Online Assignments	16.17/25	Proctored Exam	48.75/75
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Total number of candidates certified in this course: 15357

Prof. Rajesh M. Hegde  
Chairman, Centre for Continuing Education  
IIT Kanpur

Aug-Oct 2019  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur

**K. GURUMANI, B.E., Ph.D.**  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM, 606 201, KALLAKURICHI, DT.



Roll No: NPTEL19HS32S52320007

To validate and check scores: <https://nptel.ac.in/noc/>