SREE VAAGESWARI EDUCATIONAL SOCIETY
# VAAGESWARI COLLEGE OF ENGINEERING
(Affiliated to JNTUH. Hyderabad.)
(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

Date: 28/06/2022

To

The Principal,

Vaageswari College of Engineering,

Karimnagar.

**Subject**: Request Proposal to Conduct Five day FDP on "**IOT USING ARDUINO**"-Reg.

Respected Sir,

In Accordance to Subject cited above I, Head of the Department of Electronics and Communication Engineering here with request with this letter to permit us to conduct a Five day Faculty Development Program on "**IOT USING ARDUINO**" during **11-07-2022 to 15-07-2022.** I also request you to provide all the required facilities.

Thanking You,

Yours Sincerely

HOD-Dept. of ECE.

Permitted

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

SREE VAAGESWARI EDUCATIONAL SOCIETY
**VAAGESWARI COLLEGE OF ENGINEERING**
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Date: 01-07-2022

# CIRCULAR

It is hereby informed to Department of Electronics and Communication Engineering that a five day Faculty Development Program will be held on "**IOT USING ARDUINO**" from 11th to 15th JULY 2022. All the teaching and non-teaching members should avail this opportunity to upgrade the technical skills.

Hence, all teaching and non-teaching members should attend the above FDP program without fail.

**PRINCIPAL**
Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

**Copies to:**

- To circulate among all the staff members
- All the Notice Boards
- To all HODS
- Office file

**FDP CONTENT:**

The primary objective of this one-week online Faculty Development Program (FDP) on Internet of Things (IOT) is to enrich faculty members of Computer Science & related Engineering streams with us ability of the IOTs across various real-world applications and design different application on and communication protocols for IoTs. Designing the solutions for several applications using IoTs by integrating machine learning/deep learning will be elaborated.

**PROGRAMME CONTENT**

IoT Network Design and Architecture

IoT enabled Software Architectures and Middleware

Introduction to IoT applications

Introduction to Arduino

Understand Arduino

Arduino Architecture

Arduino programming

Sensor based I/O Applications]

Analog and Digital Sensor and its interfacing

Introduction to NODE MCU

IoT cloud using ESP8266

Setup IoT connectivity using ESP8266 WiFi Module

Develop and test an IoT weather monitoring station

**ADVISORY COMMITTEE**

**CHIEF PATRON**

Dr. G. Sreenivas Reddy
General Secretary and Correspondent

**PATRON**

Sri. D. Srinivas Reddy, Joint-Secretary
Dr. Ch. Srinivas, Principal

**COORDINATOR**

Mr. **G.S.ARUN KUMAR**
Assistant Professor,
Department of ECE

**ORGANIZING COMMITTEE**

Mr. Thirupathi Bajjuri

Mrs.E.Jyothi

Ms.K.Pravalika

Mr.K.Vijay Kumar

Mr. L Prakash

Mr. Ram Mohan

Mr.Md.Kurshid

**CONVENER**

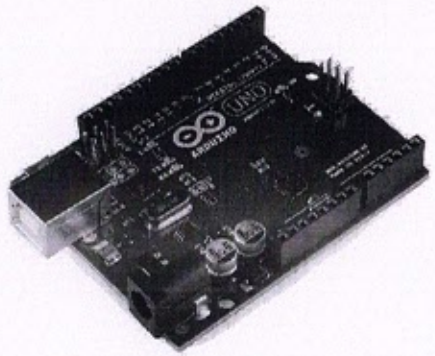
**Mr. Md.Kurshid**
Assistant Professor,
**Department of Electronics and Communications Engineering**

Email: s4.ecehod@gmail.com
Phone: +91-9985542041

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527

# FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON IoT USING ARDUINO

**11th to15th July 2022**



**Organized**

**By**

**Department of Electronics & Communications Engineering**
**VAAGESWARI COLLEGE OF ENGINEERING**
**(APPROVED BY AICTE, AFFILIATED TO JNTUH)**
**RAMAKRISHNA COLONY, KARIMNAGAR**
**www.vgsek.ac.in**

**********

**ABOUT THE INSTITUTE:**

Established in 2003, is one of the most prestigious society providing high quality professional education in Karimnagar district Telangana. The society is running multiple educational institutions like Vaageswari College of Engineering (2005), Pharmacy (2003), Pharmaceutical Sciences (2007), Management Sciences (2008). The society was established with a great vision to provide quality education on par with global standards to the students from all over India in general and in particular those from local and rural areas. Society is maintaining high standards so as to make them technically competent and ethically strong individuals who shall be able to improve the quality of life and become an asset to the economy of our country.The Society not only celebrates freedom of thought, cultivates vision and encourages growth, but also inculcates human values and concern for the environment and the society. The institution is awarded with Best Chapter of ISTE AP Section.

**VISION:**

"To develop the SreeVaageswari Educational Society into a center of excellence in imparting professional and technical education, to inculcate knowledge and power to the younger generation by providing high quality professional education on par with global standards and to instill high levels of discipline among student community making them ethically strong citizens capable of contributing to the development of society and mankind".

**PROGRAMS OFFERED:**

The college offers B.Tech. programmes in CSE , EEE , ECE, Civil and Mechanical Engineering. The college also offers MCA,MBA and M.Tech. in Computer Science and Engineering.

**ABOUT THE DEPARTMENT:**

The department of Electronics and Communication Engineering (ECE) was started in 2005 with an intake of 60 and in a short span of time the intake increased to 180.The department has got M.Tech in ECE with an intake of 36 during this academic year (2010-11).

The department comprises of well experienced and dedicated faculty with vast experience in teaching. The faculty members have been meticulously and judiciously picked up to impart quality education and inculcated all-round development in the Students. The department has well established labs with state of art hardware equipments and advanced softwares.

The department is run by well qualified and experienced faculty under the able guidance and leadership of Mr. D.Sampath Kumar, HOD, ECE.

Consequently, the administration is trying to play the role of resources and technical leadership in development activities at the national level.

The department also seeks to provide its students with excellent educational and educational opportunities in the field of electronics and communications engineering, thus providing a lasting technical basis in an environment of rapid technical change. In the process, it enables and promotes their professional growth through contact with best professional practices. Consequently, the administration is trying to play the role of resources and technical leadership in development activities at the national level.

Principal
Vaageswari College of Engineering
KARIMNAGAR

**REGISTRATION FORM:**

**Please fill this form and send it to us by email to s4.ecehod@gmail.com before 07th July 2022**

**Name of the Participant:**_____

**Designation:**_____

**Department:**_____

**Organization name and Address:**_____

_____

_____

**Mobile Number:**_____

**Email id:**_____

**Signature and Seal of the Head /Director of the Institute**

**NO REGISTRATION FEE**

SREE VAAGESWARI EDUCATIONAL SOCIETY
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## INVITATION LETTER

To,

Mrs. K. Jayaprada,

Assistant Professor,

Department of Electronics and Communication Engineering,

Jayamukhi Institute of Technological Sciences,

Warangal-506332.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"IOT Using ARDUINO"**-regarding.

Dear Sir,

On behalf of Vaageswari College of Engineering, I cordially invite you to deliver a lecture on **IOT Using ARDUINO** which will be held from 11th to 17th July 2022. I would be thankful if you share your expertise on the topic with our faculty.

I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

Accepted & Acknowledged

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

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## INVITATION LETTER

To,

Mrs. B. Sridevi,

Assistant Professor,

Department of Electronics and Communication Engineering,

Vaagdevi College of Engineering,

Warangal-506005.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"IOT Using ARDUINO"**-regarding.

Dear Sir,

On behalf of Vaageswari College of Engineering, I cordially invite you to deliver a lecture on **IOT Using ARDUINO** which will be held from 11th to 17th July 2022. I would be thankful if you share your expertise on the topic with our faculty.

I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

Accepted & Acknowledged

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

Principal
Vaageswari College of Engineering
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# INVITATION LETTER

To,

Mrs. K. Swapna,

Assistant Professor,

Department of Electronics and Communication Engineering,

Vaagdevi College of Engineering,

Warangal-506005.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"IOT Using ARDUINO"**-regarding.

Dear Sir,

On behalf of Vaageswari College of Engineering, I cordially invite you to deliver a lecture on **IOT Using ARDUINO** which will be held from 11th to 17th July 2022. I would be thankful if you share your expertise on the topic with our faculty.

I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

Accepted and Acknowledged
K. Swapna

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

# IOT USING ARDUINO

**(11/07/2022 to 15/07/2022)**

## Speaker Profiles

**Mr G.S,ArunKumar** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include Digital Electronics and Arduino micro controller.

**Mr.P.Ajay Kumar,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include Embedded Systems.

**Mr.M.Kranthi Kumar,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include Arduino and Sensors.

Principal
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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

# IOT USING ARDUINO

**(11th to15th July 2022)**

## SCHEDULE

| Date | Morning Session (10.00 AM -12.30 AM) | Afternoon Session (1.30PM-4.00 PM) | Resource Person |
|---|---|---|---|
| **Day 1**<br>**11-07-2022** | **Inauguration (10.00AM to 11.00AM)**<br>Introduction to IoT | Introduction to IoT applications | Mr.G.S.Arun Kumar Assistant Professsor, Department of ECE. Vaageswari College of Engineering |
| **Day 2**<br>**12-07-2022** | Introduction to Arduino | IoT Network Design | Mr.M.Kranthi Kumar, Assistant Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 3**<br>**13-07-2022** | IoT Architecture | IoT enabled Software Architectures and Middleware | Mr.P.Ajay Kumar, Assistant Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 4**<br>**14-07-2022** | Analog and Digital Sensors | Sensors Interfacing | Mr.P.Ajay Kumar, Assistant. Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 5**<br>**15-07-2022** | Introduction to NODE MCU and IoT cloud using ESP8266 | Sensors Interfacing Hands on<br>**Feedback & Valedictory (03.00PM to 04.00PM)** | Mr.M.Kranthi Kumar, Assistant Professor, Department of ECE. Vaageswari College of Engineering |

**Coordinator** **HOD** **Principal**

Principal
Vaageswari College of Engineering
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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

# IOT USING ARDUINO

**11th to15th July 2022**

## LIST OF PARTICIPANTS

| S.NO | NAME OF THE PARTICIPANT | SIGNATURE |
|---|---|---|
| 1 | THIRUPATHI BAJJURI | |
| 2 | L PRAKASH | |
| 3 | B. RAM MOHAN | |
| 4 | K.VIJAY KUMAR | |
| 5 | KALAKONDA JYOTHSNA | |
| 6 | JYOTHI EREDDY | |
| 7 | BHARGAVENDRA BODDU | |
| 8 | VENKATA REDDY ADAMA | |
| 9 | MD.KURSHID | |
| 10 | G.PRATHEEPA | |
| 11 | ARUN KUMAR AKULA | |
| 12 | T. NAGESWARRAO | |
| 13 | D. LAXMI NARAYANA | |
| 14 | G.S.ARUN KUMAR | |
| 15 | P.AJAY KUMAR | |
| 16 | CH.PRANAY RAJ | |
| 17 | D.SURENDER | |
| 18 | U.RAJENDER | |

**Coordinator** **HOD** **Principal**

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

## IOT USING ARDUINO

**11th to15th July 2022**

## ATTENDANCE SHEET

| S.No | Name | 11/07/2022 | 12/07/2022 | 13/07/2022 | 14/07/2022 | 15/07/2022 |
|---|---|---|---|---|---|---|
| 1 | THIRUPATHI BAJJURI | | | | | |
| 2 | L PRAKASH | | | | | |
| 3 | B. RAM MOHAN | | | | | |
| 4 | K.VIJAY KUMAR | | | | | |
| 5 | KALAKONDA JYOTHSNA | | | | | |
| 6 | JYOTHI EREDDY | | | | | |
| 7 | BHARGAVENDRA BODDU | | | | | |
| 8 | VENKATA REDDY ADAMA | | | | | |
| 9 | MD.KURSHID | | | | | |
| 10 | G.PRATHEEPA | | | | | |
| 11 | ARUN KUMAR AKULA | | | | | |
| 12 | T. NAGESWARRAO | | | | | |
| 13 | D. LAXMI NARAYANA | | | | | |
| 14 | G.S.ARUN KUMAR | | | | | |
| 15 | P.AJAY KUMAR | | | | | |
| 16 | CH.PRANAY RAJ | | | | | |
| 17 | D.SURENDER | | | | | |
| 18 | U.RAJENDER | | | | | |

Coordinator

HOD

Principal

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

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## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : B. Thirupathi
2. Designation : Asst Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | | ✓ |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | ✓ | |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | ✓ | | | |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
| 9 | Encourages me to raise and make comments | | | | | ✓ |
| 10 | Challenges me to think | | | ✓ | | |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | ✓ | | | |
| 2 | Knows his/her subject | | | ✓ | | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | | ✓ |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | ✓ | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | ✓ | | | |
| 10 | Time management in the class | | | ✓ | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : L. Prakash
2. Designation : Asst-prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

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| 3 | Willingness to learn from the participants | | ✓ | | | |
| 4 | Punctuality in class | | | | ✓ | |
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Signature

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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

**IOT USING ARDUINO**

**(11th to15th July 2022)**

1. Name of the Participant : B. Ram mohan
2. Designation : Asst prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

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Signature

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : K. Vijay Kumar
2. Designation : Asst. Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

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| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Vijay

Signature

SREE VAAGESWARI EDUCATIONAL SOCIETY

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : K. Jyothsna
2. Designation : ASST PROF, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | | | ✓ |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | ✓ |
| 9 | Quality of good reference provided | | | | | ✓ |
| 10 | Time management in the class | | | | | ✓ |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | | ✓ |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

(Affiliated to JNTUH. Hyderabad.)

(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : E. Jyothi

2. Designation : Assoc Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | ✓ | | | |
| 8 | Encouraging high order of critical thinking | | | ✓ | | |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | ✓ | | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | | ✓ |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | ✓ | | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | ✓ | | |
| 3 | Willingness to learn from the participants | | | | ✓ | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : B. Bhargavendra
2. Designation : ASSOC PROF, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | ✓ | | | |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | ✓ | | |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | | | ✓ |
| 6 | Uses effective teaching method to enhance learning | | | ✓ | | |
| 7 | Contributes to improve my learning | | | | ✓ | |
| 8 | Quality of study material provided | | | | | ✓ |
| 9 | Quality of good reference provided | | | ✓ | | |
| 10 | Time management in the class | | ✓ | | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | ✓ | | |
| 3 | Willingness to learn from the participants | | | | ✓ | |
| 4 | Punctuality in class | | | | | ✓ |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : A Venkata Reddy
2. Designation : Assoc-Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
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| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | | ✓ |
| 5 | Flexibility in accommodating individual participants needs | | | | | ✓ |
| 6 | Uses effective teaching method to enhance learning | | | | | ✓ |
| 7 | Contributes to improve my learning | | | | ✓ | |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | ✓ | | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | | ✓ |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering
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## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : md. kurenid
2. Designation : Asst. prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | ✓ | | | |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
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| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
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| 7 | Contributes to improve my learning | | ✓ | | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | | | | ✓ |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | ✓ | |
| 4 | Punctuality in class | | | ✓ | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : G. Pratheepa
2. Designation : Asst. prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command**<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | ✓ | | |
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| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | ✓ | | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
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| 3 | Willingness to learn from the participants | | | | ✓ | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : A. Arun kumar
2. Designation : Asst. Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | ✓ | | | |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | ✓ | | |
| 5 | Flexibility in accommodating individual participants needs | | | | ✓ | |
| 6 | Uses effective teaching method to enhance learning | | | | | ✓ |
| 7 | Contributes to improve my learning | | | ✓ | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | | | | ✓ |
| 10 | Time management in the class | | ✓ | | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | ✓ | | |
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| 3 | Willingness to learn from the participants | | | ✓ | | |
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| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : T. Nageshwar Rao
2. Designation : Assoc Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
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| 3 | Self Confidence | | | ✓ | | |
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| 5 | Reference to the latest development | | ✓ | | | |
| 6 | Linking subject to the life experience | | | | | ✓ |
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| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | | ✓ |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | ✓ | | |
| 4 | Ability to clearly explains concept | | ✓ | | | |
| 5 | Flexibility in accommodating individual participants needs | | | | ✓ | |
| 6 | Uses effective teaching method to enhance learning | | | | | ✓ |
| 7 | Contributes to improve my learning | | | ✓ | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | ✓ | | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : D. Lanminarayana

2. Designation : Asst Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | ✓ | | |
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| 10 | Challenges me to think | | ✓ | | | |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | ✓ | | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | ✓ | | |
| 5 | Flexibility in accommodating individual participants needs | | | | ✓ | |
| 6 | Uses effective teaching method to enhance learning | | | | | ✓ |
| 7 | Contributes to improve my learning | | | ✓ | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | ✓ | | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
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| 3 | Willingness to learn from the participants | | ✓ | | | |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : G.S.Arunkumar

2. Designation : Asst.prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | ✓ |
| 9 | Encourages me to raise and make comments | | | | | ✓ |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | | ✓ |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | | | ✓ |
| 6 | Uses effective teaching method to enhance learning | | | ✓ | | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | | | | ✓ |
| 10 | Time management in the class | | | ✓ | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | | | ✓ |
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| 4 | Punctuality in class | | | | | ✓ |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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**Department of Electronics and Communication Engineering**
**Five-Day Faculty Development Program on**
**IOT USING ARDUINO**
**(11th to15th July 2022)**

1. Name of the Participant : P.Ajay Kumar
2. Designation : Asst. prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | ✓ | | | | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | | ✓ |
| 2 | Knows his/her subject | | | ✓ | | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | | | | ✓ |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | | | ✓ |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | | ✓ |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

P. Ajak

Signature

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

(Affiliated to JNTUH. Hyderabad.)

(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : Ch. pranay Raj

2. Designation : Asst prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | | | ✓ |
| 4 | Conducting class room discussions | | | ✓ | | |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
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| 10 | Challenges me to think | | | ✓ | | |
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| 3 | Ability to clear areas of confusion | | | ✓ | | |
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| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
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| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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## Department of Electronics and Communication Engineering

## Five-Day Faculty Development Program on

## IOT USING ARDUINO

## (11th to15th July 2022)

1. Name of the Participant : D. Surender
2. Designation : ASSOC PROF, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
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| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | ✓ | |
| 5 | Reference to the latest development | | | | | ✓ |
| 6 | Linking subject to the life experience | | | ✓ | | |
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| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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# VAAGESWARI COLLEGE OF ENGINEERING

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## Department of Electronics and Communication Engineering
## Five-Day Faculty Development Program on
## IOT USING ARDUINO
## (11th to15th July 2022)

1. Name of the Participant : V. Rajender
2. Designation : Asst. Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
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| 4 | Conducting class room discussions | | | ✓ | | |
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| 1 | Ability to listen and understand participants | | | | | ✓ |
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| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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# VAAGESWARI COLLEGE OF ENGINEERING
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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

**IOT USING ARDUINO**

**11th to15th July 2022**

Mr.T.Nageshwar Rao, Associate Professor, Electronics and Communication Engineering addressing the gathering of the Devolopment Program

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

Beside L.M.D. Police Station, KARIMNAGAR - 505 527, Telangana State. Ph : 0878-2004242
E-mail: s4.principal@gmail.com, Website: www.vgsek.ac.in

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

(Affiliated to JNTUH. Hyderabad.)

(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

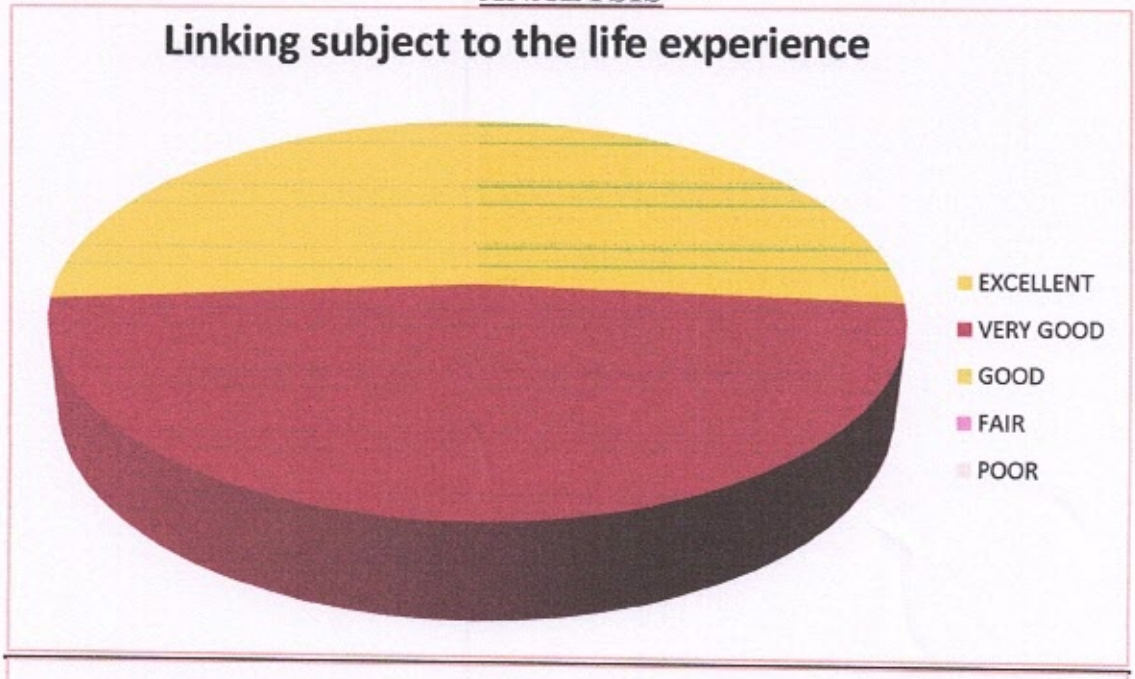
**Department of Electronics and Communication Engineering**

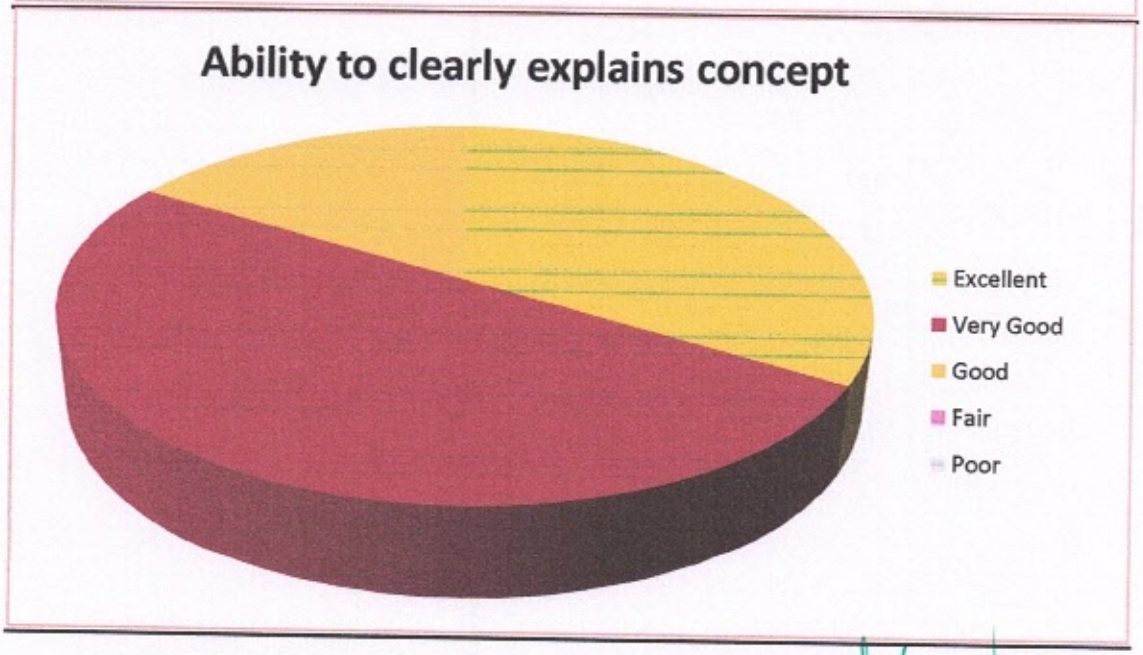
**Five-Day Faculty Development Program on**

## IOT USING ARDUINO

**(11th to15th July 2022)**

## ANALYSIS

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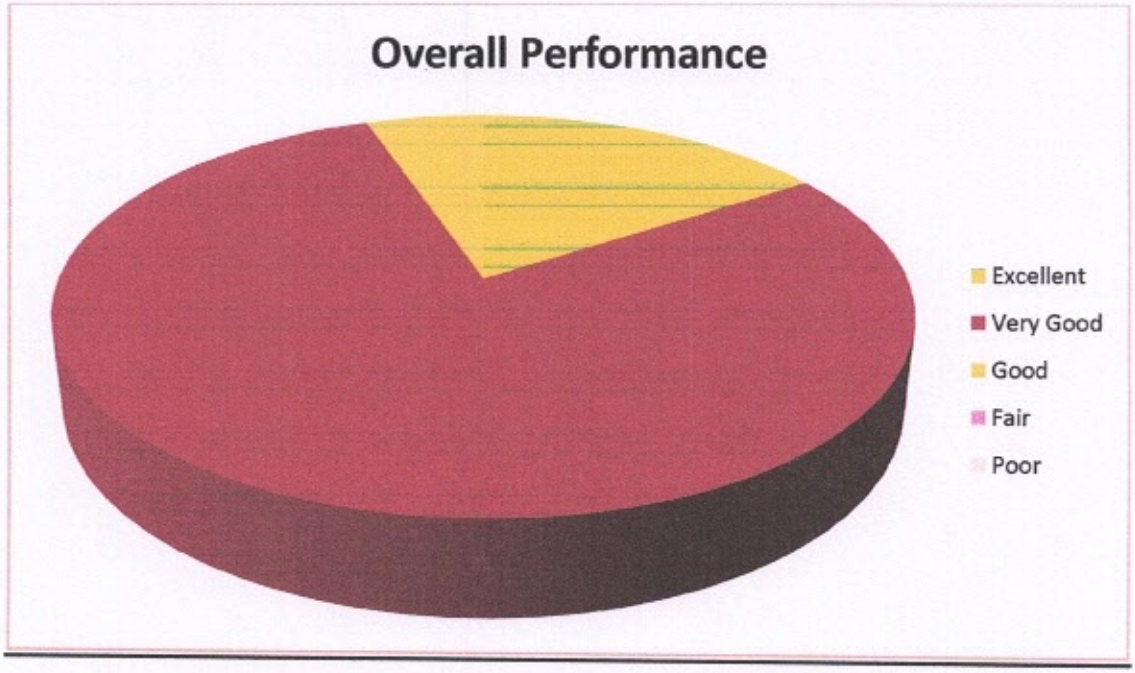


## ACTION TAKEN

The organizing committee has taken a decision to conduct the upcoming Faculty Development Programmes in a very effective and efficient manner. The committee also decided to invite speakers from very reputed organizations. It has been decided to make the programmes more of practical oriented and more focus is to be put on emerging technologies in Electronics and communication Engineering. The committee also decided to conduct workshops on Circuit modeling using PSPICE.

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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

**IOT USING ARDUINO**

**(11/07/2022-15/07/2022)**

## REPORT

Five Day Faculty Development Programme on "IoT USING ARDUINO" was organized by Department of Electronics and Communication Engineering, Vaageswari college of Engineering from 11th to 15th July 2022 for the faculty of ECE Department. Several faculty members of the Department actively participated and gained useful information from all the sessions.

Mr.G.S,Arun Kumar, Assistant Professor, ECE Department, Vaageswari college of Engineering conducted FDP on I0T using Arduino. It was initiated with the introduction to Arduino and IDE.

IoT is embedded with Electronics, Internet connectivity, and other forms of hardware, these devices can communicate and interact with others over the Internet, and they can be remotely monitored and controlled. Arduino is an open-source Electronics platform based on easy-to-use hardware and software. Arduino senses the environment by receiving inputs from many sensors, and affects its surroundings by controlling lights, motors, and other actuators.

**Outcomes of the Faculty Development Program:**

IoT Network Design and Architecture

Introduction to IoT applications

Introduction to Arduino

Analog and Digital Sensor and its interfacing

Introduction to NODE MCU and IoT cloud using ESP8266

IoT enabled Software Architectures and Middleware

**TECHNICAL SESSIONS:**

1st Day (11-07-2022)

This FDP is intended to make the participants aware and able to work on this emerging area. Around 24 participants attended this FDP to gain knowledge in the area of designing projects and applications by the use of IoT with Arduino.

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During the day Mr.G.S,Arun Kumar, Assistant Professor, ECE Department introduced the audience to IoT, key components of IoT, variety of sensors and applications of IoT.

2nd Day (12-07-2022)

Mr.M.Kranthi Kumar Assistant Professor, ECE Department introduced the participants about Arduino and IoT Network Design. The participants interacted with resource person and discussed about implementation problems they are facing in their research work.

3rd Day (13-07-2022)

Mr.P.Ajay Kumar, Assistant. Professor, Department of ECE. Addressed the participants about IoT Architecture and IoT enabled Software Architectures.

The participants fascinated with IoT enabled Software Architectures and interacted with resource person and clarified their doubts regarding Software Architectures.Sir has demonstrated all methods involved in Software Architectures.

4th Day (14-07-2022)

Mr.P.Ajay Kumar, Assistant. Professor, Department of ECE, had covered the topic Analog and Digital Sensors and Sensors Interfacing .The participants interacted with the resource person and their doubts on Sensors.

5th Day (15-07-2022)

Mr.M.Kranthi Kumar Assistant Professor, ECE Department had, covered the topic - Introduction to NODE MCU and IoT cloud using ESP8266 followed by Valedictory for the event.

**Coordinator** **HOD** **Principal**

Principal
Jageswari College of Engineering
KARIMNAGAR-505 527.

SREE VAAGESWARI EDUCATIONAL SOCIETY
VAAGESWARI COLLEGE OF ENGINEERING
(Affiliated to JNTUH. Hyderabad.)
(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

Date: 31/10/2022

To

The Principal,

Vaageswari College of Engineering,

Karimnagar.

**Subject**: Request Proposal to Conduct Five day FDP on "**Advanced Research Trends in Image Processing**"-Reg.

Respected Sir,

In Accordance to Subject cited above I, Head of the Department of Electronics and Communication Engineering here with request with this letter to permit us to conduct a Five day Faculty Development Program on "**Advanced Research Trends in Image Processing**" during **14-11-2022 to 18-11-2022.** I also request you to provide all the required facilities.

Thanking You,

Yours Sincerely

HOD-Dept. of ECE.

Permitted

Principal
Vaageswari College of Engineering
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SREE VAAGESWARI EDUCATIONAL SOCIETY
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Date: 07-11-2022

## CIRCULAR

It is hereby informed to Department of Electronics and Communication Engineering that a five day Faculty Development Program will be held on "**Advanced Research Trends in Image Processing**" from 14th to 18th November 2022. All the teaching and non-teaching members should avail this opportunity to upgrade the technical skills.

Hence, all teaching and non-teaching members should attend the above FDP program without fail.

**PRINCIPAL**
Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

**Copies to:**

- To circulate among all the staff members
- All the Notice Boards
- To all HODS
- Office file

**FDP CONTENT:**

Image Processing is a scientific discipline as well as technology frontier, with immense applications. The treatment of speech processing requires an initial grounding in digital signal processing. This allows us to understand a proper coverage of basic speech processing algorithms. Image processing is a growing research field where many revolutionary ideas and efficient algorithms have been developed over the past few decades.

The objective of this program is to introduce the participants to the world of Image Processing, and give an insight into how and where it can be used. This Program will be useful to learn the fundamentals of Digital Processing of Satellite Image data and Biomedical Image data. Hands-on exercises with MATLAB software will open the door for programming in image processing

**PROGRAMME CONTENT**

- Fundamentals of Image Processing
- Mathematical tools for Image processing
- Morphological Image Processing & Compression
- Soft Computing Techniques
- Image Mining
- Image Security
- Iris Pattern Recognition
- Multimodal Biometrics
- Medical Image Processing.

## ADVISORY COMMITTEE

**CHIEF PATRON**

Dr. G. Sreenivas Reddy
General Secretary and Correspondent

**PATRON**

Sri. D. Srinivas Reddy, Joint-Secretary
Dr. Ch. Srinivas, Principal

**COORDINATOR**

**Mr.T.NAGESWAR RAO**
Associate Professor,
Department of ECE

## ORGANIZING COMMITTEE

Dr.K. KEERTI KUMAR
Mr.G.S.ARUN KUMAR
Mr.B.THIRUPATHI
Mr. LAXMI NARAYANA
Mr.CH.PRANAY RAJ

**CONVENER**

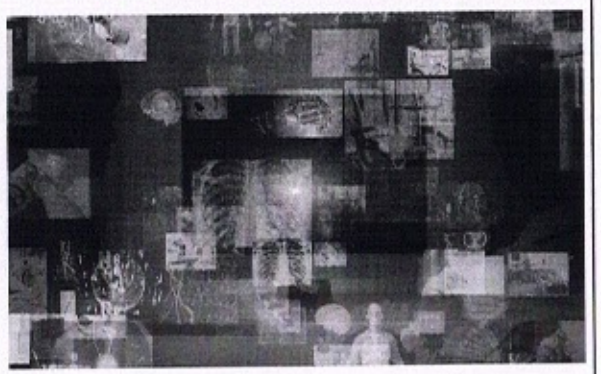
**A.VENKATA REDDY**
Associate Professor,
**Department of Electronics & Communication Engineering**
Email: s4.ecehod@gmail.com
Phone: +91-98121860999

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

# FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON

## Advanced Research Trends in Image Processing

## 14th to18th November 2022



**Organized**

**By**

**Department of Electronics & Communications Engineering**
**VAAGESWARI COLLEGE OF ENGINEERING**
**(APPROVED BY AICTE, AFFILIATED TO JNTUH)**
**RAMAKRISHNA COLONY, KARIMNAGAR**
**www.vgsek.ac.in**

**********

## ABOUT THE INSTITUTE:

Established in 2003, is one of the most prestigious society providing high quality professional education in Karimnagar district Telangana. The society is running multiple educational institutions like Vaageswari College of Engineering (2005), Pharmacy (2003), Pharmaceutical Sciences (2007), Management Sciences (2008). The society was established with a great vision to provide quality education on par with global standards to the students from all over India in general and in particular those from local and rural areas. Society is maintaining high standards so as to make them technically competent and ethically strong individuals who shall be able to improve the quality of life and become an asset to the economy of our country.The Society not only celebrates freedom of thought, cultivates vision and encourages growth, but also inculcates human values and concern for the environment and the society. The institution is awarded with Best Chapter of ISTE AP Section.

## VISION:

"To develop the SreeVaageswari Educational Society into a center of excellence in imparting professional and technical education, to inculcate knowledge and power to the younger generation by providing high quality professional education on par with global standards and to instill high levels of discipline among student community making them ethically strong citizens capable of contributing to the development of society and mankind".

## PROGRAMS OFFERED:

The college offers B.Tech. programmes in CSE , EEE , ECE, Civil and Mechanical Engineering. The college also offers MCA, MBA and M.Tech. in Computer Science and Engineering.

## ABOUT THE DEPARTMENT:

The department of Electronics and Communication Engineering (ECE) was started in 2005 with an intake of 60 and in a short span of time the intake increased to 180.The department has got M.Tech in ECE with an intake of 36 during this academic year (2010-11).

The department comprises of well experienced and dedicated faculty with vast experience in teaching. The faculty members have been meticulously and judiciously picked up to impart quality education and inculcated all-round development in the Students. The department has well established labs with state of art hardware equipments and advanced softwares.

The department is run by well qualified and experienced faculty under the able guidance and leadership of Mr. R.Naraiah, HOD, ECE.

Consequently, the administration is trying to play the role of resources and technical leadership in development activities at the national level.

The department also seeks to provide its students with excellent educational and educational opportunities in the field of electronics and communications engineering, thus providing a lasting technical basis in an environment of rapid technical change. In the process, it enables and promotes their professional growth through contact with best professional practices. Consequently, the administration is trying to play the role of resources and technical leadership in development activities at the national level.

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

## REGISTRATION FORM:

**Please fill this form and send it to us by email to s4.ecehod@gmail.com before 11th November 2022**

**Name of the Participant:**_____

**Designation:**_____

**Department:**_____

**Organization name and Address:**_____

_____

_____

**Mobile Number:**_____

**Email id:**_____

**Signature and Seal of the Head /Director of the Institute**

**NO REGISTRATION FEE**

SREE VAAGESWARI EDUCATIONAL SOCIETY
**VAAGESWARI COLLEGE OF ENGINEERING**
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# INVITATION LETTER

To,

Mr. Hameed Pasha Mohammad,

Associate Professor and Head,

Department of Electronics and Communication Engineering,

Jayamukhi Institute of Technological Sciences,

Warangal-506332.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"Advanced Research Trends in Image Processing"**-regarding.

Dear Sir,

On behalf of Vaageswari College of Engineering, I cordially invite you to deliver a lecture on **Advanced Research Trends in Image Processing** which will be held from 14th to 18th November 2022. I would be thankful if you share your expertise on the topic with our faculty.

I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

accepted & acknowledged

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

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Vaageswari College of Engineering
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# INVITATION LETTER

To,

Dr. S. Sandhya Rani,

Professor,

Department of Electronics and Communication Engineering,

Jayamukhi Institute of Technological Sciences,

Warangal-506332.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"Advanced Research Trends in Image Processing"**-regarding.

Dear Sir,

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I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

Accepted & Acknowledged

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

## Advanced Research Trends in Image Processing

**(14/11/2022 to 18/11/2022)**

## SCHEDULE

| Date | Morning Session (10.00 AM -12.30 AM) | Afternoon Session (1.30PM-4.00 PM) | Resource Person |
|---|---|---|---|
| **Day 1**<br>**14-11-2022** | **Inauguration (10.00AM to 11.00AM)**<br>Fundamentals of Image Processing | Fundamentals of Image Processing (Contd.) | Mr.G.S Arun Kumar, Assistant Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 2**<br>**15-11-2022** | Image Enhancement techniques | Morphological Image Processing & Compression | Mr.B.Rammohan Reddy Assistant Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 3**<br>**16-11-2022** | Satellite Imaging | Hands on Session | Mr. B. Thirupathi, Assistant Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 4**<br>**17-11-2022** | Medical Imaging | Hands on Session | Mrs.E.Jyothi Associate Professor, Department of ECE. Vaageswari College of Engineering |
| **Day 5**<br>**18-11-2022** | Filtering Techniques | Hands on Session<br>**Valedictory (03.00PM to 04.00PM)** | Mrs.E.Jyothi Associate Professor, Department of ECE. Vaageswari College of Engineering |

**Coordinator** **HOD** **Principal**

Principal
aageswari College of Engineering
KARIMNAGAR-505 527.

**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

## Advanced Research Trends in Image Processing

**(14/22/2022 to 18/11/2022)**

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## Speaker Profiles

**Mr. G.S.Arun Kumar,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Associate Professor at Vaageswari College of Engineering. His research interests include Image enhancing techniques.

**Mr.B.Rammohan Reddy**, completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include MATLAB fundamentals.

**Mr.B.Thirupathi,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include Signal Processing.

**Mrs.EJyothi,** completed her M.Tech from Jawaharlal Nehru Technological University. Currently she is working as an Associate Professor at Vaageswari College of Engineering. Her research interests include MATLAB fundamentals.

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VAAGESWARI COLLEGE OF ENGINEERING
(Affiliated to JNTUH. Hyderabad.)
(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

## Advanced Research Trends in Image Processing

**(14/11/2022 to 18/11/2022)**

**LIST OF PARTICIPANTS**

| S.No. | Name of the Participant | Signature |
|---|---|---|
| 1 | G.S.ARUN KUMAR | |
| 2 | D. LAXMI NARAYANA | |
| 3 | M.KRANTHI KUMAR | |
| 4 | K. JYOTHSNA | |
| 5 | B.THIRUPATHI | |
| 6 | B.BHARGAVENDRA | |
| 7 | P.AJAY KUMAR | |
| 8 | T. NAGESWAR RAO | |
| 9 | A.VENKATA REDDY | |
| 10 | D.SURENDER | |
| 11 | A.ARUN KUMAR | |
| 12 | E.JYOTHI | |
| 13 | V.SUDHAKAR | |
| 14 | L.PRAKASH | |

Coordinator HOD Principal

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

SREE VAAGESWARI EDUCATIONAL SOCIETY

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**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

## Advanced Research Trends in Image Processing

**(14/11/2022 to 18/11/2022)**

## ATTENDANCE SHEET

| S.No. | Name of the Participant | 14/11/2022 | 15/11/2022 | 16/11/2022 | 17/11/2022 | 18/11/2022 |
|---|---|---|---|---|---|---|
| 1 | G.S.ARUN KUMAR | | | | | |
| 2 | D. LAXMI NARAYANA | | | | | |
| 3 | M.KRANTHI KUMAR | | | | | |
| 4 | K. JYOTHSNA | | | | | |
| 5 | B.THIRUPATHI | | | | | |
| 6 | B.BHARGAVENDRA | | | | | |
| 7 | P.AJAY KUMAR | | | | | |
| 8 | T. NAGESWAR RAO | | | | | |
| 9 | A.VENKATA REDDY | | | | | |
| 10 | D.SURENDER | | | | | |
| 11 | A.ARUN KUMAR | | | | | |
| 12 | E.JYOTHI | | | | | |
| 13 | V.SUDHAKAR | | | | | |
| 14 | L.PRAKASH | | | | | |

Coordinator

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : G. S. Arun Kumar

2. Designation & Department : Asst prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — a
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — b
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — c
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — d
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — c
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — c
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — a

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — d
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — c
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — a
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — d
5. Were objectives of the course realized? Y ☑ / N ☐

Signature

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : D. Laxminarayana

2. Designation & Department : ASST prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — c
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — b
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — c
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — d
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — b

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — d
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — d
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — b
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — c
5. Were objectives of the course realized? Y ☑ / N ☐

Signature

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : M. Kranthi Kumar

2. Designation & Department : Asst Prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — c
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — b
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — b
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — c
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — d
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — b

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand — d
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — c
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — b
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — b
5. Were objectives of the course realized? Y ☑ / N ☐

Signature

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : K.Jyothsna

2. Designation & Department : Asst prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — c
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — a
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — b
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — b
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — b
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — a

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — a
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — c
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — c
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — d
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : B. Thirupathi

2. Designation & Department : Asst prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations — d
   a. Good b. Very Good c. Average d. Excellent
3. The lecture sequence was well planned — c
   a. Good b. Very Good c. Average d. Excellent
4. The contents were illustrated with — b
   a. Good b. Very Good c. Average d. Excellent
5. The level of the course was — a
   a. Good b. Very Good c. Average d. Excellent
6. The course contents compared with your expectations — d
   a. Good b. Very Good c. Average d. Excellent
7. The course exposed you to new knowledge and practices — c
   a. Good b. Very Good c. Average d. Excellent
8. Will you recommend this course to your colleagues? — b
   a. Good b. Very Good c. Average d. Excellent

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand — c
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used — d
   a. Good b. Very Good c. Average d. Excellent
3. The course material handed out was adequate — b
   a. Good b. Very Good c. Average d. Excellent
4. The instructors encouraged interaction and were helpful — c
   a. Good b. Very Good c. Average d. Excellent
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : B. Bhargavendra

2. Designation & Department : Assoc Prof, ECE

**THE DESIGN OF THE FDP**

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — a
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — c
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — b
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — c
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — d
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — b

---

**THE CONDUCT OF THE FDP**

1. The lectures were clear and easy to understand — c
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — a
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — b
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — d
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : P. Ajay kumar

2. Designation & Department : Asst prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations — d
   a. Good b. Very Good c. Average d. Excellent
3. The lecture sequence was well planned — a
   a. Good b. Very Good c. Average d. Excellent
4. The contents were illustrated with — a
   a. Good b. Very Good c. Average d. Excellent
5. The level of the course was — b
   a. Good b. Very Good c. Average d. Excellent
6. The course contents compared with your expectations — c
   a. Good b. Very Good c. Average d. Excellent
7. The course exposed you to new knowledge and practices — d
   a. Good b. Very Good c. Average d. Excellent
8. Will you recommend this course to your colleagues? — a
   a. Good b. Very Good c. Average d. Excellent

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand — a
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used — b
   a. Good b. Very Good c. Average d. Excellent
3. The course material handed out was adequate — d
   a. Good b. Very Good c. Average d. Excellent
4. The instructors encouraged interaction and were helpful — c
   a. Good b. Very Good c. Average d. Excellent
5. Were objectives of the course realized? Y ☑ / N ☐

P. Ajay

Signature

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : T. Nageshwar Rao

2. Designation & Department : Assoc Prof, ECE

**THE DESIGN OF THE FDP**

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — c
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   a. Good b. Very Good c. Average d. Excellent — c
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — a
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — d

---

**THE CONDUCT OF THE FDP**

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — c
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — d
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — b
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — b
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : A. Venkata Reddy

2. Designation & Department : Assoc Prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations — d
   a. Good b. Very Good c. Average d. Excellent
3. The lecture sequence was well planned — c
   a. Good b. Very Good c. Average d. Excellent
4. The contents were illustrated with — c
   a. Good b. Very Good c. Average d. Excellent
5. The level of the course was — a
   a. Good b. Very Good c. Average d. Excellent
6. The course contents compared with your expectations — a
   a. Good b. Very Good c. Average d. Excellent
7. The course exposed you to new knowledge and practices — b
   a. Good b. Very Good c. Average d. Excellent
8. Will you recommend this course to your colleagues? — c
   a. Good b. Very Good c. Average d. Excellent

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand — d
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used — a
   a. Good b. Very Good c. Average d. Excellent
3. The course material handed out was adequate — c
   a. Good b. Very Good c. Average d. Excellent
4. The instructors encouraged interaction and were helpful — b
   a. Good b. Very Good c. Average d. Excellent
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : D. Surender

2. Designation & Department : Assoc Prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations — d
   a. Good b. Very Good c. Average d. Excellent
3. The lecture sequence was well planned — b
   a. Good b. Very Good c. Average d. Excellent
4. The contents were illustrated with — a
   a. Good b. Very Good c. Average d. Excellent
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   a. Good b. Very Good c. Average d. Excellent
6. The course contents compared with your expectations — c
   a. Good b. Very Good c. Average d. Excellent
7. The course exposed you to new knowledge and practices — d
   a. Good b. Very Good c. Average d. Excellent
8. Will you recommend this course to your colleagues? — b
   a. Good b. Very Good c. Average d. Excellent

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand — a
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used — b
   a. Good b. Very Good c. Average d. Excellent
3. The course material handed out was adequate — d
   a. Good b. Very Good c. Average d. Excellent
4. The instructors encouraged interaction and were helpful — c
   a. Good b. Very Good c. Average d. Excellent
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : A. Arunkumar

2. Designation & Department : Asst Prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — d
4. The contents were illustrated with
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8. Will you recommend this course to your colleagues?
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### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — d
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — c
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — c
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — d
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : E. Jyothi

2. Designation & Department : Assoc Prof, ECE

**THE DESIGN OF THE FDP**

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — [b]
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — [a]
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — [d]
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — [a]
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — [c]
7. The course exposed you to new knowledge and practices
   a. Good b. Very Good c. Average d. Excellent — [a]
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — [b]

---

**THE CONDUCT OF THE FDP**

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — [b]
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — [c]
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — [a]
4. The instructors encouraged interaction and were helpful
   a. Good b. Very Good c. Average d. Excellent — [d]
5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : V. Sudhakar

2. Designation & Department : Asst prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations
   a. Good b. Very Good c. Average d. Excellent — d
3. The lecture sequence was well planned
   a. Good b. Very Good c. Average d. Excellent — c
4. The contents were illustrated with
   a. Good b. Very Good c. Average d. Excellent — b
5. The level of the course was
   a. Good b. Very Good c. Average d. Excellent — a
6. The course contents compared with your expectations
   a. Good b. Very Good c. Average d. Excellent — c
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   a. Good b. Very Good c. Average d. Excellent — b
8. Will you recommend this course to your colleagues?
   a. Good b. Very Good c. Average d. Excellent — a

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand
   a. Good b. Very Good c. Average d. Excellent — d
2. The teaching aids were effectively used
   a. Good b. Very Good c. Average d. Excellent — c
3. The course material handed out was adequate
   a. Good b. Very Good c. Average d. Excellent — b
4. The instructors encouraged interaction and were helpful
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5. Were objectives of the course realized? Y ☑ / N ☐

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## FEEDBACK

**Title of the FDP: Advanced Research Trends in Image Processing**

**Date:** 14/11/2022 to 18/11/2022

1. Name of the Participant : L. Prakash

2. Designation & Department : Asst Prof, ECE

### THE DESIGN OF THE FDP

1. Were objectives of the course clear to you? Y ☑ / N ☐
2. The course contents met with your expectations — c
   a. Good b. Very Good c. Average d. Excellent
3. The lecture sequence was well planned — b
   a. Good b. Very Good c. Average d. Excellent
4. The contents were illustrated with — d
   a. Good b. Very Good c. Average d. Excellent
5. The level of the course was — d
   a. Good b. Very Good c. Average d. Excellent
6. The course contents compared with your expectations — b
   a. Good b. Very Good c. Average d. Excellent
7. The course exposed you to new knowledge and practices — c
   a. Good b. Very Good c. Average d. Excellent
8. Will you recommend this course to your colleagues? — c
   a. Good b. Very Good c. Average d. Excellent

---

### THE CONDUCT OF THE FDP

1. The lectures were clear and easy to understand — d
   a. Good b. Very Good c. Average d. Excellent
2. The teaching aids were effectively used — c
   a. Good b. Very Good c. Average d. Excellent
3. The course material handed out was adequate — d
   a. Good b. Very Good c. Average d. Excellent
4. The instructors encouraged interaction and were helpful — c
   a. Good b. Very Good c. Average d. Excellent
5. Were objectives of the course realized? Y ☑ / N ☐

Signature

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

(Affiliated to JNTUH. Hyderabad.)

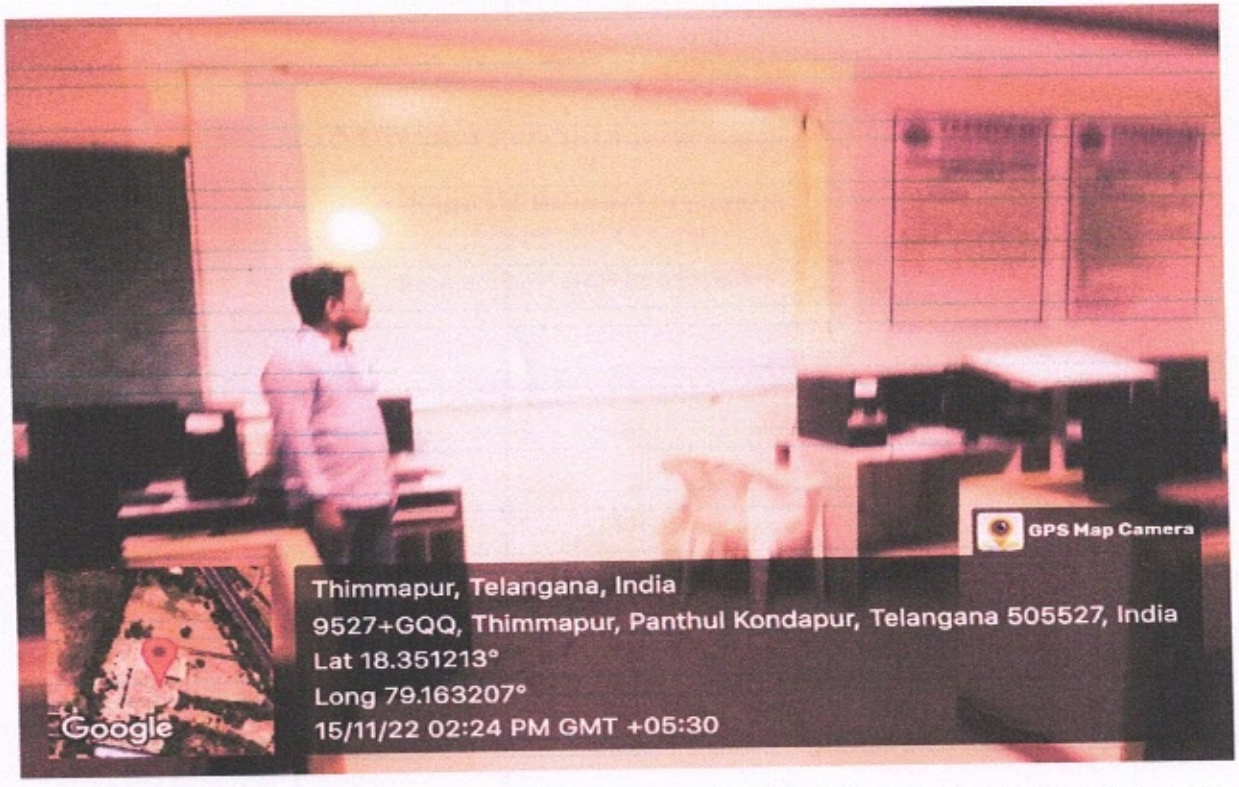
(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

**Department of Electronics and Communication Engineering**

**Five-Day Faculty Development Program on**

**Advanced Research Trends in Image Processing**

**(14/11/2022 to 18/11/2022)**




Mr.K.Vijay Kumar, Assistant Professor, Department of ECE giving a brief introduction about Image Processing algorithms.

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

Beside L.M.D. Police Station, KARIMNAGAR - 505 527, Telangana State. Ph : 0878-2004242
E-mail: s4.principal@gmail.com, Website: www.vgsek.ac.in

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

(Affiliated to JNTUH. Hyderabad.)

(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

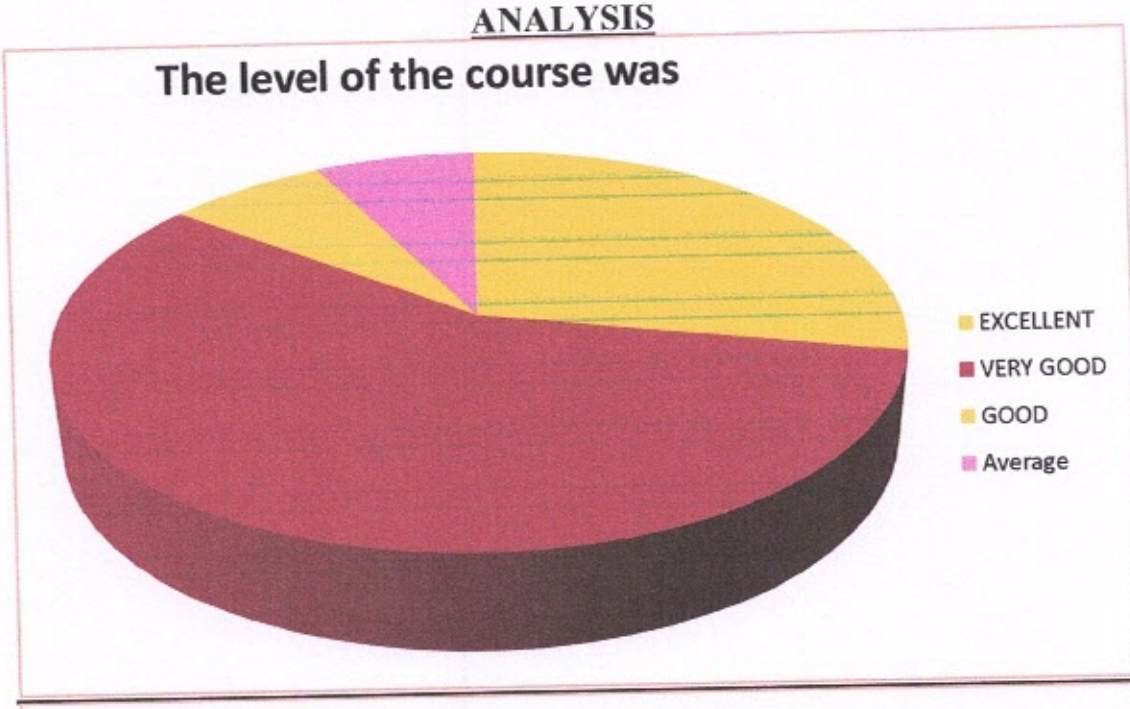
**Department of Electronics and Communication Engineering**

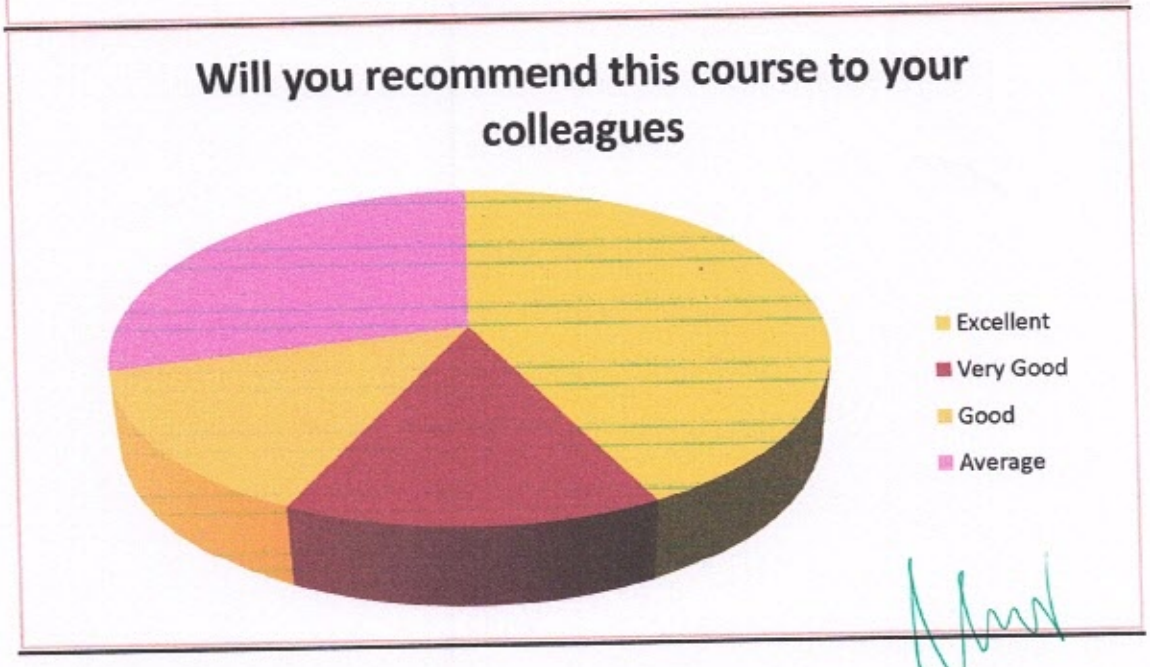
**Five-Day Faculty Development Program on**

## ADVANCED RESEARCH TRENDS IN IMAGE PROCESSING

**(14/11/2022 to 18/11/2022)**

## ANALYSIS

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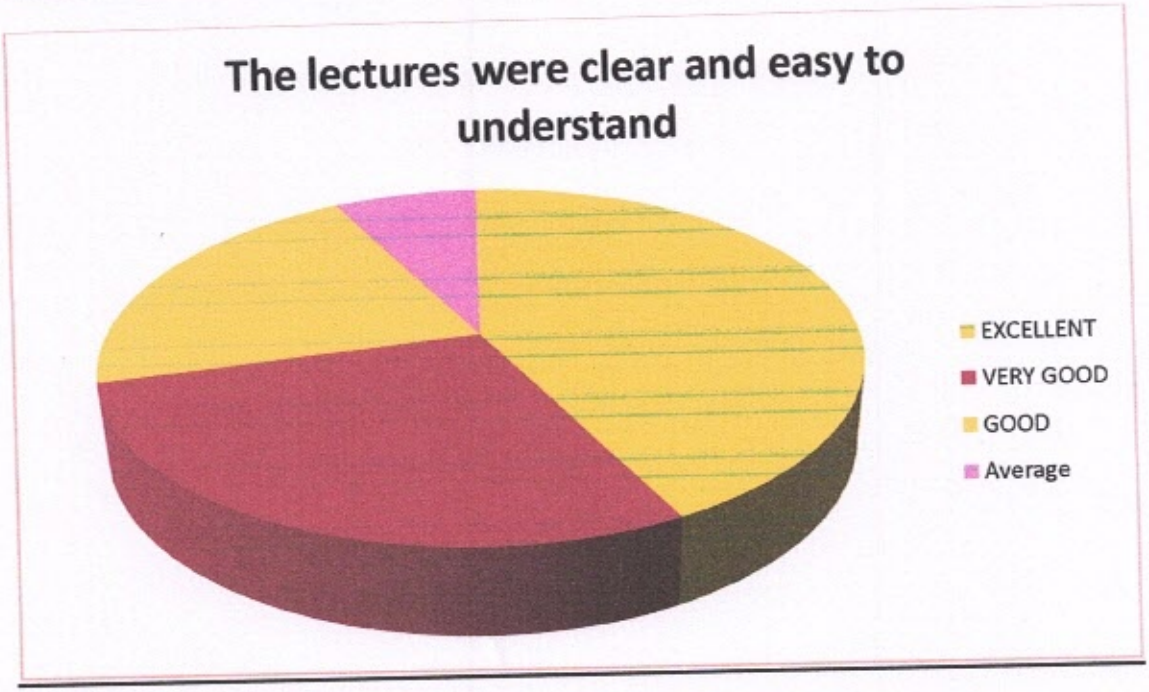


## ACTION TAKEN

The organizing committee has taken a decision to conduct the upcoming Faculty Development Programmes in a very effective and efficient manner. The committee also decided to invite speakers from very reputed organizations. It has been decided to make the programmes more of practical oriented and more focus is to be put on latest and emerging techniques related to Image Processing. The committee decided to organize more programmes on Advanced Digital Signal Processing.

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**Department of Electronics and Communication Engineering**

Five-Day Professional Development Program on

**Advanced Research Trends in Image Processing**

**(14/11/2022-18/11/2022)**

**REPORT**

A five Day Faculty Development Program on "Advanced Research Trends in Speech and Image Processing" was organized by Department of Electronics and Communication Engineering, Vaageswari college of Engineering from 14th to 18th November 2022 for the faculty of ECE Department. Several faculty members of the Department actively participated and gained useful information from all the sessions.

The program is designed to design and develop Digital circuits at Schematic and Layout levels. The program provided an opportunity to acquire knowledge about current technological developments in the field of Image Processing. This Program will be useful to learn the fundamentals of Digital Processing of Human Speech data, Satellite Image data and Biomedical Image data. Hands-on exercises with MATLAB software will open the door for programming in image processing

**Outcomes of the Faculty Development Program:**

**1st Day (14-11-2022)**

This FDP is intended to make the participants aware and able to work on this emerging area. Around 20 participants attended this FDP to gain knowledge in the area of designing projects and applications by the use of Image Processing.

During the day Mr. G.S, Arun Kumar, Assistant Professor, ECE Department introduced the audience about Fundamentals of Image Processing.

**2nd Day (15-11-2022)**

Mr.B. Rammohan Reddy Assistant Professor, ECE Department introduced the Participants about Image enhancement techniques followed by Morphological Image Processing and Compression.

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**3rd Day (16-11-2022)**

Mr.B.Thirupathi, Assistant Professor, Department of ECE, had covered the topic Satellite Imaging followed by Hands on session.

**4th Day (17-11-2022)**

Mrs.E.Jyothi, Associate Professor, Department of ECE, had covered the topic Medical Imaging followed by Hands on session.

**5th Day (18-11-2022)**

Mrs.E.Jyothi, Associate Professor, Department of ECE, had covered the topic of Filtering Techniques followed by Hands on session. After the break valedictory was held.

**Coordinator** **HOD** **Principal**

Principal
Rageswari College of Engineering
KARIMNAGAR-505 527.

SREE VAAGESWARI EDUCATIONAL SOCIETY
**VAAGESWARI COLLEGE OF ENGINEERING**
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Date: 24/02/2023

To
The Principal,
Vaageswari College of Engineering,
Karimnagar.

**Subject**: Request Proposal to Conduct Five day FDP on "**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**"-Reg.

Respected Sir,

In Accordance to Subject cited above I, Head of the Department of Electronics and Communication Engineering here with request with this letter to permit us to conduct a Five day Faculty Development Program on "**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**" during **13-03-2023 to 17-03-2023.** I also request you to provide all the required facilities.

Thanking You,

Yours Sincerely

HOD-Dept. of ECE.

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Date: 06-03-2023

# CIRCULAR

It is hereby informed to Department of Electronics and Communication Engineering ,that a Five day Faculty Development Program will be held on "**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**" from 13th to 17th March 2023. All the teaching and non-teaching members should avail this opportunity to upgrade the technical skills.

Hence, all teaching and non-teaching members should attend the above FDP program without fail.

**PRINCIPAL**
Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

**Copies to:**

- To circulate among all the staff members
- All the Notice Boards
- To all HODS
- Office file

**WORKSHOP CONTENT:**

Each year, the microprocessor moves closer to the center of our lives, staking out its place in the heart of one machine after another. How generalized microprocessor work, can be easily determined by the study of Intel 8086.Nowadays in our day to day life, we are using tremendous applications of microprocessor such as washing machine, Traffic light controller, Elevator, Automatic voice system in trains etc. The motto behind this workshop is to train the faculty for such basic application of microprocessor with exposure to real time hardware. A microcontroller can be considered a self-contained system with a processor, memory and peripherals and can be used as an embedded system. The majority of microcontrollers in use today are embedded in other machinery, such as automobiles, telephones, appliances, and peripherals for computer systems Also Microcontrollers are used in automatically controlled products and devices, such as automobile engine control systems, implantable medical devices, remote controls, office machines, appliances, power tools, toys and other embedded systems.

- 8086 Architecture, 8086 bus architecture
- Memory Interfacing to 8086
- Programming of 8086 through assemblers and Emulators (ESA and ANSHUMEN Boards)
- 8255 Interfacing to 8086, Interfacing Hex keypad,Seven Segment display, ADC and DAC to 8086
- Elevator Inter facing, traffic light Controller and DC motor Interfacing , 8253 and 8259 interfacing to 8086
- 8051 and Atmega16 Microcontroller Architectures, Programming of 8051 and Atmega 16 microcontroller, Key pad and LCD Interfacing
- ARM micro controller

**ADVISORY COMMITTEE**

**CHIEF PATRON**

Dr. G. Sreenivas Reddy

General Secretary and Correspondent

**PATRONS**

Sri.D. Srinivas Reddy

Joint Secretary

Dr. Ch. Srinivas

Principal

**COORDINATOR**

Mrs. E.Jyothi Reddy

Associate Professor, Dept. of ECE

**ORGANIZING COMMITTEE**

Mrs. B. Thirupathi

Mr. B. Ram Mohan

Mr. P. Ajay Kumar

Mrs. K. Jyothsna

Mr. V. Sudhakar

Mr. K. Vijay Kumar

**CONVENOR**

**Mr. A. Venkata Reddy**
Associate Professor
Department of Electronics and Communication Engineering
Email: s4.ecehod@gmail.com
Phone: +91-8121860999

Principal
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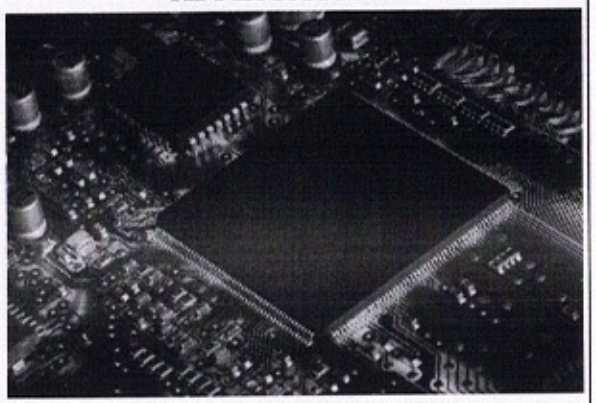
# FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS



**Organized by**

**Department of Electronics and Communication Engineering**

**VAAGESWARI COLLEGE OF ENGINEERING**

**Karimnagar, Telangana- India**

**13th to 17th March, 2023**

**********

**ABOUT THE INSTITUTE:**

Established in 2003, Vaageswari Educational Society is one of the most prestigious society providing high quality professional education in Karimnagar district of Telangana. The society is running multiple educational institutions like Vaageswari College of Engineering (2005), Pharmacy (2003), Pharmaceutical Sciences (2007), Management Sciences (2008). The society was established with a great vision to provide quality education on par with global standards to the students from all over India in general and in particular those from local and rural areas. Society is maintaining high standards so as to make them technically competent and ethically strong individuals who shall be able to improve the quality of life and become an asset to the economy of our country. The Society not only celebrates freedom of thought, cultivates vision and encourages growth, but also inculcates human values and concern for the environment and the society. The institution is awarded with Best Chapter of ISTE AP Section.

**VISION:**

"To develop the Sree Vaageswari Educational Society into a center of excellence in imparting professional and technical education, to inculcate knowledge and power to the younger generation by providing high quality professional education on par with global standards and to instill high levels of discipline among student community making them ethically strong citizens capable of contributing to the development of society and mankind".

**PROGRAMS OFFERED:**

The college offers B.Tech programmes in CSE, EEE, ECE, Civil and Mechanical Engineering. The college also offers MCA and M.Tech in Computer Science and Engineering.

**ABOUT THE DEPARTMENT:**

The department of Electronics and Communication Engineering (ECE) was started in 2005 with an intake of 60 and in a short span of time the intake increased to 180.

The department comprises of well experienced and dedicated faculty with vast experience in teaching. The faculty members have been meticulously and judiciously picked up to impart quality education and inculcated all-round development in the Students. The department has well established labs with state of art hardware equipments and advanced software's.

The Department's main objective is not only make the students excel in theory but also in experimental research through academic projects in various fields. The Department regularly organizes several programs such as workshops, guest lectures, seminars etc. to impart state of art knowledge in different technologies to the students as well as faculty members. Department is dedicated to advancing, disseminating and exploiting knowledge in engineering and technology. The department offers a four-year course a Bachelor's degree in Electronics and Communication Engineering. Department has the most advanced art of advanced equipment in the laboratory. All employees can reach students for any of their problems, whether academic or non-academic. The department aims to technically develop students and make them mentally strong to meet future challenges.

The department also seeks to provide its students with excellent educational and educational opportunities in the field of electronics and communications engineering, thus providing a lasting technical basis in an environment of rapid technical change. In the process, it enables and promotes their professional growth through contact with best professional practices. Consequently, the administration is trying to play the role of resources and technical leadership in development activities at the national level.

Principal
Vaageswari College of Engineer

**REGISTRATION FORM:**

**Please fill this form and send it to us by email to s4.ecehod@gmail.com before 10th March 2023**

**Name of the Participant:**_____

**Designation:**_____

**Department:**_____

**Organization name and Address:**_____

_____

_____

**Mobile Number:**_____

**Email id:**_____

**Signature and Seal of the Head /Director of the Institute**

**NO REGISTRATION FEE**

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# INVITATION LETTER

To,

Mr. Hameed Pasha Mohammad,

Associate Professor and Head,

Department of Electronics and Communication Engineering,

Jayamukhi Institute of Technological Sciences,

Warangal-506332.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"Microprocessor, Microcontroller and Applications"**-regarding.

Dear Sir,

On behalf of Vaageswari College of Engineering, I cordially invite you to deliver a lecture on **Microprocessor, Microcontroller and Applications Processing** which will be held from 13th to 17th March 2023. I would be thankful if you share your expertise on the topic with our faculty.

I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

Accepted & Acknowledged

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

Principal
Vaageswari College of Engineering
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# INVITATION LETTER

To,

Dr. S. Sandhya Rani,

Professor,

Department of Electronics and Communication Engineering,

Jayamukhi Institute of Technological Sciences,

Warangal-506332.

**Sub:** Invitation to be a resource person for five day Faculty Development Program on **"Microprocessor, Microcontroller and Applications"**-regarding.

Dear Sir,

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I will be eagerly looking forward to hear from you and hope that you would accept our invitation for the event.

Accepted & Acknowledged

**Dr. Ch. Srinivas,**
Principal,
Vaageswari College of Engineering,
Karimnagar.
Email: s4.principal@gmail.com

Principal
Vaageswari College of Engineering
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**Department of Electronics and Communication Engineering**

**Five day Faculty Development Program on**

**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**

**(13th to 17th March 2023)**

## SCHEDULE

| Date | Morning Session (10.00 AM -12.30 AM) | Afternoon Session (1.30PM-4.00 PM) | Resource Person |
|---|---|---|---|
| **Day 1**<br>**13-03-2023** | **Registration and Inauguration (10.00AM to 10.30AM)**<br>8086 Architecture | 8086 Bus Architecture | Mrs.E.Jyothi Associate Professor, Department of ECE. Vaageswari College of Engineering. |
| **Day 2**<br>**14-03-2023** | Memory Interfacing to 8086 | Programming of 8086 through assemblers and Emulators | Mr.B.Thirupathi Assistant Professor, Department of ECE. Vaageswari College of Engineering. |
| **Day 3**<br>**15-03-2023** | 8255 Interfacing to 8086,Interfacing Hex keypad,Seven Segment display, ADC and DAC to 8086 | Elevator Inter facing, traffic light Controller and DC motor Interfacing , 8253 and 8259 interfacing to 8086 | Mr.A.Arun Kumar Assistant Professor, Department of ECE. Vaageswari College of Engineering. |
| **Day 4**<br>**16-03-2023** | 8051 and Atmega16 Microcontroller Architectures, Programming of 8051 and Atmega 16 microcontroller, Key pad and LCD Interfacing | ARM micro controller Hands on session. | Mrs.E.Jyothi Associate Professor, Department of ECE. Vaageswari College of Engineering. |
| **Day 5**<br>**17-03-2023** | Hands on session | Hands on session<br>**Feedback & Valedictory (03.00PM to 04.00PM)** | Mr.B.Thirupathi Assistant Professor, Department of ECE. Vaageswari College of Engineering. |

**Co-ordinator** **HOD** **Principal**

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527.

## Department of Electronics & Communication Engineering

**Five day Faculty Development Program on**

**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**

**(13th to 17th, March 2023)**

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## SPEAKER PROFILES

**Mrs. E. Jyothi,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Associate Professor at Vaageswari College of Engineering. His research interests include Embedded system Design.

**Mr. B.Thirupathi,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests includes Image Processing.

**Mr. A.Arun Kumar,** completed his M.Tech from Jawaharlal Nehru Technological University. Currently he is working as an Assistant Professor at Vaageswari College of Engineering. His research interests include VLSI Design.

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## Department of Electronics & Communication Engineering

**Five day Faculty Development Program on**

**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**

**(13th to 17th, March 2023)**

## LIST OF PARTICIPANTS

| S.No | Name of the Participant | Signature |
|---|---|---|
| 1 | DEEKONDA LAXMI NARAYANA | |
| 2 | NAGESWARRAO TEKULAPALLY | |
| 3 | B. RAM MOHAN | |
| 4 | B.THIRUPATHI | |
| 5 | K. JYOTHSNA | |
| 6 | G.S.ARUN KUMAR | |
| 7 | B.BHARGAVENDRA | |
| 8 | P.AJAY KUMAR | |
| 9 | V.SUDHAKAR | |
| 10 | A.VENKATA REDDY | |
| 11 | CH PRANAY RAJ | |
| 12 | A.ARUN KUMAR | |
| 13 | D.SURENDER | |

**Co-Ordinator** **HOD** **Principal**

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## Department of Electronics & Communication Engineering

**Five day Faculty Development Program on**

**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**

**(13th to 17th, March 2023)**

## ATTENDANCE SHEET

| S.No | Name | 13/03/2023 | 14/03/2023 | 15/03/2023 | 16/03/2023 | 17/03/2023 |
|---|---|---|---|---|---|---|
| 1 | DEEKONDA LAXMI NARAYANA | | | | | |
| 2 | NAGESWARRAO TEKULAPALLY | | | | | |
| 3 | B. RAM MOHAN | | | | | |
| 4 | B.THIRUPATHI | | | | | |
| 5 | K. JYOTHSNA | | | | | |
| 6 | G.S.ARUN KUMAR | | | | | |
| 7 | B.BHARGAVENDRA | | | | | |
| 8 | P.AJAY KUMAR | | | | | |
| 9 | V.SUDHAKAR | | | | | |
| 10 | A.VENKATA REDDY | | | | | |
| 11 | CH PRANAY RAJ | | | | | |
| 12 | A.ARUN KUMAR | | | | | |
| 13 | D.SURENDER | | | | | |

Coordinator

HOD

Principal

Principal
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## Department of Electronics and Communication Engineering

### Five day Faculty Development Program on

### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : D. Laxmi narayana
2. Designation & Department : Asst prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | ✓ | |
| 4 | Conducting class room discussions | | ✓ | | | |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | | | ✓ |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | ✓ | | | |
| 6 | Uses effective teaching method to enhance learning | | | ✓ | | ✓ |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | | | ✓ |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | | | | ✓ |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | | | ✓ |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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## Department of Electronics and Communication Engineering

### Five day Faculty Development Program on

### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : T. Nageshwar Rao
2. Designation & Department : Assoc Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | ✓ | | | |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | ✓ | | | |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | | ✓ |
| 2 | Knows his/her subject | | | ✓ | | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | | ✓ |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | ✓ | | | |
| 7 | Contributes to improve my learning | | | | ✓ | |
| 8 | Quality of study material provided | | | | | ✓ |
| 9 | Quality of good reference provided | | | ✓ | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

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## Department of Electronics and Communication Engineering

### Five day Faculty Development Program on

### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : B. Rammohan
2. Designation & Department : ASSt Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | | ✓ |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | ✓ | |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | ✓ | | | |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | ✓ | | | |
| 4 | Ability to clearly explains concept | | | ✓ | | |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | | ✓ |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | | | ✓ |
| 9 | Quality of good reference provided | | | ✓ | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | | | ✓ |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

SREE VAAGESWARI EDUCATIONAL SOCIETY

# VAAGESWARI COLLEGE OF ENGINEERING

(Affiliated to JNTUH. Hyderabad.)

(Approved by AICTE New Delhi & Recognised by the Govt. of Telangana State)

## Department of Electronics and Communication Engineering

### Five day Faculty Development Program on

### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : B. Thirupathi
2. Designation & Department : Asst Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | **A.) Subject Command** How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | | | ✓ |
| 4 | Conducting class room discussions | | | ✓ | | |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | ✓ | | | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | | ✓ | | |
| **S. No.** | **B.) Content** Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | ✓ | | |
| 5 | Flexibility in accommodating individual participants needs | | ✓ | | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | | ✓ | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | ✓ | | |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | | ✓ |
| 4 | Punctuality in class | | | ✓ | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : K. Jyothsna.
2. Designation & Department : Asst. Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | | | ✓ |
| 4 | Conducting class room discussions | | | ✓ | | |
| 5 | Reference to the latest development | | | | | ✓ |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | ✓ | | |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | | | ✓ |
| 6 | Uses effective teaching method to enhance learning | | | ✓ | | |
| 7 | Contributes to improve my learning | | ✓ | | | |
| 8 | Quality of study material provided | ✓ | | | | |
| 9 | Quality of good reference provided | | ✓ | | ✓ | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | | ✓ |
| 4 | Punctuality in class | | | ✓ | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : G.S.Arun kumar
2. Designation & Department : Asst prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | ✓ | | | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | ✓ | ✓ | |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
| 9 | Encourages me to raise and make comments | | | | | ✓ |
| 10 | Challenges me to think | | | | | ✓ |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | |
| 4 | Ability to clearly explains concept | | | ✓ | | |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | ✓ | | | |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | ✓ | | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | ✓ | | |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | | ✓ |
| 4 | Punctuality in class | | | ✓ | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : B. Bhargavendra
2. Designation & Department : Assoc Prof ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | ✓ | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | ✓ | | | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | ✓ | | |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | | | ✓ |
| 6 | Uses effective teaching method to enhance learning | | | ✓ | | |
| 7 | Contributes to improve my learning | | | | ✓ | |
| 8 | Quality of study material provided | | | | | ✓ |
| 9 | Quality of good reference provided | | | ✓ | | |
| 10 | Time management in the class | | ✓ | | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : P. Ajay kumar
2. Designation & Department : ASST Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | | ✓ |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | ✓ | | |
| 9 | Encourages me to raise and make comments | | | | ✓ | |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | ✓ | | |
| 3 | Ability to clear areas of confusion | | | | ✓ | |
| 4 | Ability to clearly explains concept | | | | | ✓ |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | | ✓ |
| 7 | Contributes to improve my learning | | | ✓ | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | ✓ | |
| 2 | Respecting opinion and decision of participants | | | ✓ | | |
| 3 | Willingness to learn from the participants | | ✓ | | | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

P. Ajak

Signature

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### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : V. Sudhakar
2. Designation & Department : Asst prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | | | ✓ |
| 4 | Conducting class room discussions | | ✓ | | | |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | ✓ | |
| 7 | Creating interest in the subject | | | | | ✓ |
| 8 | Encouraging high order of critical thinking | | | ✓ | | |
| 9 | Encourages me to raise and make comments | | ✓ | | | |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | | ✓ |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | ✓ | | |
| 4 | Ability to clearly explains concept | | ✓ | | | |
| 5 | Flexibility in accommodating individual participants needs | | | | ✓ | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | ✓ | | | |
| 10 | Time management in the class | | | | ✓ | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | ✓ | | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : A. Venkata Reddy
2. Designation & Department : Assoc prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | | ✓ |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | ✓ | | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | | ✓ | | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | ✓ | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | ✓ | | |
| 4 | Ability to clearly explains concept | | ✓ | | | |
| 5 | Flexibility in accommodating individual participants needs | | | | | ✓ |
| 6 | Uses effective teaching method to enhance learning | | ✓ | | | |
| 7 | Contributes to improve my learning | | | | ✓ | |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | | ✓ | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | ✓ | | |
| 2 | Respecting opinion and decision of participants | | | | | ✓ |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | | ✓ |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

($13^{th}$ to $17^{th}$ March 2023)

## FEEDBACK

1. Name of the Participant : Ch. Pranay Raj
2. Designation & Department : Asst Prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | ✓ | | |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | | | ✓ |
| 4 | Conducting class room discussions | | | ✓ | | |
| 5 | Reference to the latest development | | ✓ | | | |
| 6 | Linking subject to the life experience | | | ✓ | | |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | | ✓ |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | ✓ | | | |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | ✓ | | |
| 9 | Quality of good reference provided | | | | ✓ | |
| 10 | Time management in the class | | ✓ | | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | ✓ | | |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | | | ✓ |
| 4 | Punctuality in class | | | ✓ | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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(13th to 17th March 2023)

## FEEDBACK

1. Name of the Participant : A. Arunkumar
2. Designation & Department : ASST prof, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | | | | ✓ |
| 2 | Communication skills | | | | ✓ | |
| 3 | Self Confidence | | | ✓ | | |
| 4 | Conducting class room discussions | | ✓ | | | |
| 5 | Reference to the latest development | | | ✓ | ✓ | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | | ✓ | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
| 9 | Encourages me to raise and make comments | | | ✓ | | |
| 10 | Challenges me to think | | | | ✓ | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | | | ✓ |
| 2 | Knows his/her subject | | | | | ✓ |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | | ✓ | |
| 5 | Flexibility in accommodating individual participants needs | | | ✓ | | |
| 6 | Uses effective teaching method to enhance learning | | ✓ | | | |
| 7 | Contributes to improve my learning | | | ✓ | | |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | | | | ✓ |
| 10 | Time management in the class | | | | | ✓ |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | | ✓ |
| 3 | Willingness to learn from the participants | | | | ✓ | |
| 4 | Punctuality in class | | | ✓ | | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

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## Department of Electronics and Communication Engineering

### Five day Faculty Development Program on

### MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS

($13^{th}$ to $17^{th}$ March 2023)

## FEEDBACK

1. Name of the Participant : D. Surender
2. Designation & Department : ASSOC PROF, ECE

- The numbers rating are: **1.** Very Bad **2.** Bad **3.** Good **4.** Very Good **5.** Excellent
- Tick (✓) the answer that fits your experience. Your sincere feedback will help the centre to improve service delivery.

| S. No. | A.) Subject Command<br>How well the Resource Person focus on the topic | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 1 | Focus on the topic | | ✓ | | | |
| 2 | Communication skills | | | ✓ | | |
| 3 | Self Confidence | | | | ✓ | |
| 4 | Conducting class room discussions | | | | | ✓ |
| 5 | Reference to the latest development | | | | ✓ | |
| 6 | Linking subject to the life experience | | | | | ✓ |
| 7 | Creating interest in the subject | | | ✓ | | |
| 8 | Encouraging high order of critical thinking | | | | ✓ | |
| 9 | Encourages me to raise and make comments | | | | | ✓ |
| 10 | Challenges me to think | | | ✓ | | |
| **S. No.** | **B.) Content**<br>Depth of knowledge of the Resource Person | **1** | **2** | **3** | **4** | **5** |
| 1 | Well organized and prepared for the class | | | ✓ | | |
| 2 | Knows his/her subject | | | | ✓ | |
| 3 | Ability to clear areas of confusion | | | | | ✓ |
| 4 | Ability to clearly explains concept | | | ✓ | | |
| 5 | Flexibility in accommodating individual participants needs | | ✓ | | | |
| 6 | Uses effective teaching method to enhance learning | | | | ✓ | |
| 7 | Contributes to improve my learning | | | | | ✓ |
| 8 | Quality of study material provided | | | | ✓ | |
| 9 | Quality of good reference provided | | | | | ✓ |
| 10 | Time management in the class | | | ✓ | | |
| **S. No.** | **C.) Delivery** | **1** | **2** | **3** | **4** | **5** |
| 1 | Ability to listen and understand participants | | | | | ✓ |
| 2 | Respecting opinion and decision of participants | | | | ✓ | |
| 3 | Willingness to learn from the participants | | | ✓ | | |
| 4 | Punctuality in class | | | | ✓ | |
| **S. No.** | **D.) Overall Performance** | **1** | **2** | **3** | **4** | **5** |

Signature

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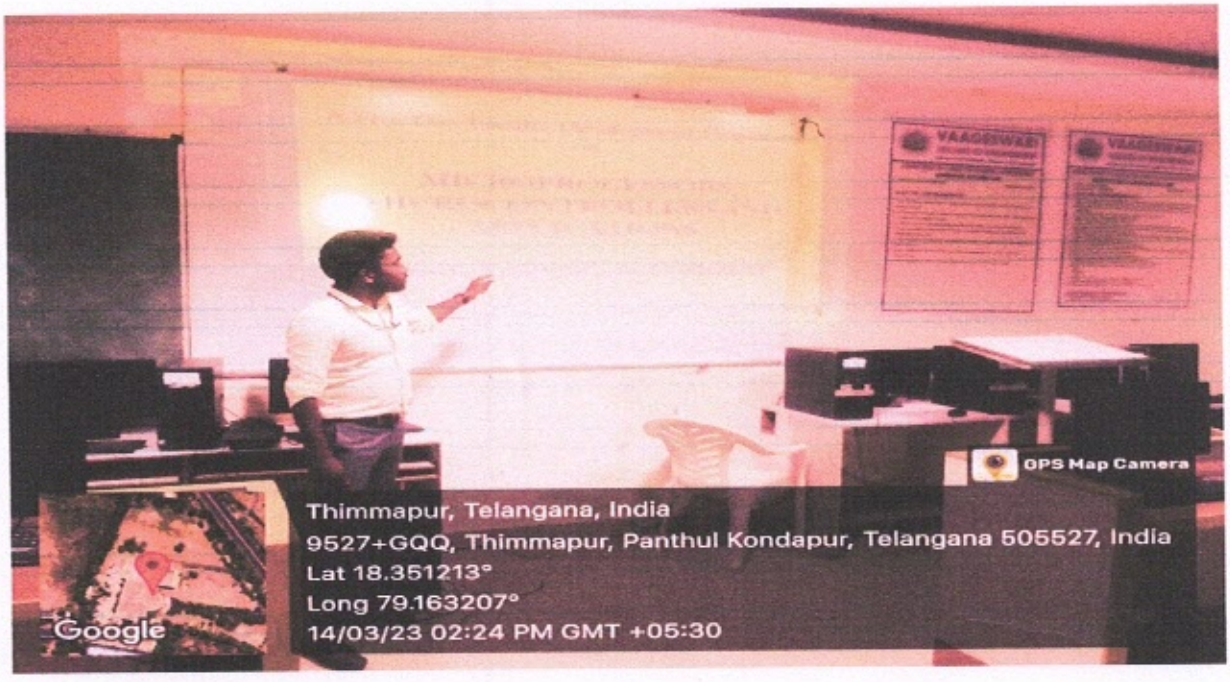
**MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS**

**(13th to 17th, March 2023)**




Mr.L.Prakash, Assistant Professor, Department of Electronics and Communication Engineering delivering lecture on real time of use of microcontroller and applications.

Principal
Vaageswari College of Engineering
KARIMNAGAR-505 527

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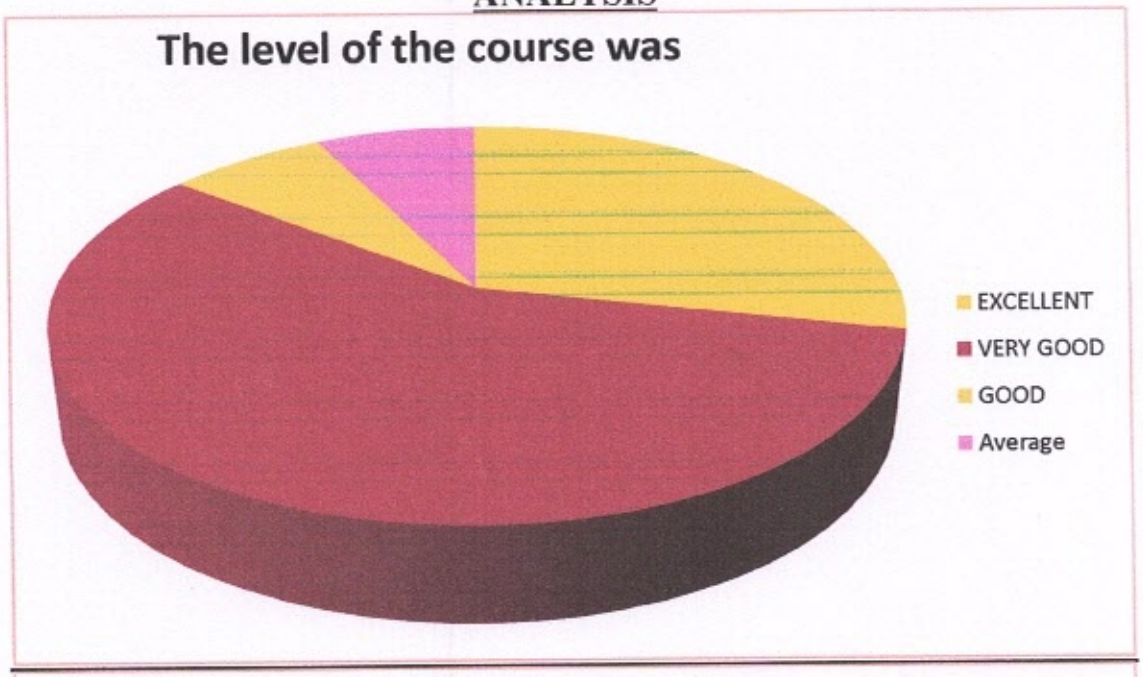
**Department of Electronics and Communication Engineering**

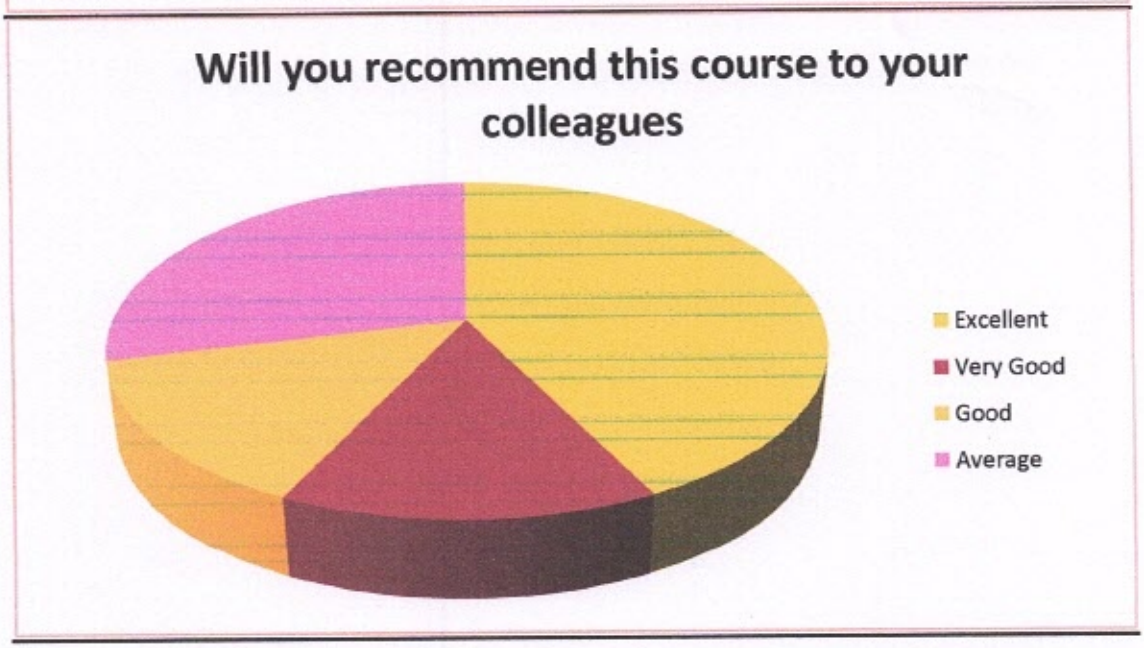
**Five-Day Faculty Development Program on**

## MICROPROCESSOR, MICROCONTROLLER AND APPLICATIONS

**(13/03/2023 to 17/03/2023)**

## ANALYSIS

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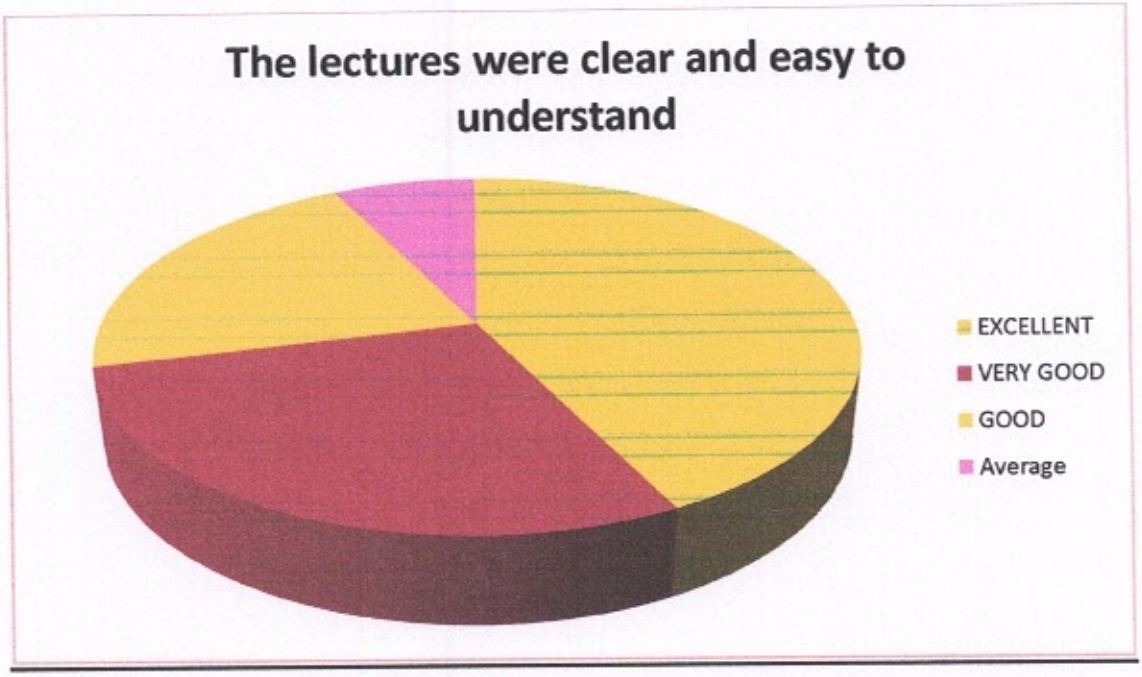


## ACTION TAKEN

The organizing committee has taken a decision to conduct the upcoming Faculty Development Programmes in a very effective and efficient manner. The committee also decided to invite speakers from very reputed organizations. It has been decided to make the programmes more of practical oriented and more focus is to be put on latest and emerging techniques related to Microcontroller Programming. The committee decided to organize more programmes on Advanced Microcontroller Programming.

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**(13/03/2023 to 17/03/2023)**

## REPORT

A Five Day Faculty Development Programme on "MICROPROCESSORS, MICROCONTROLLERS AND APPLICATIONS" was organized by Department of Electronics and Communication Engineering, Vaageswari college of Engineering from 13th to 17th March, 2023 for the faculty of ECE Department. Several faculty members of the Department actively participated and gained useful information from all the sessions.

Mrs. E.Jyothi Reddy, Associate Professor, ECE Department, Vaageswari College of Engineering conducted this program on Microprocessors, Microcontrollers and Applications.

Nowadays in our day to day life, we are using tremendous applications of microprocessor such as washing machine, Traffic light controller, Elevator, Automatic voice system in trains etc. The motto behind this workshop is to train the faculty for such basic application of microprocessor with exposure to real time hardware. A microcontroller can be considered a self-contained system with a processor, memory and peripherals and can be used as an embedded system.

### Outcomes of the Faculty Development Program:

- 8086 Architecture, 8086 bus architecture
- Memory Interfacing to 8086
- Programming of 8086 through assemblers and Emulators (ESA and ANSHUMEN Boards)
- 8255 Interfacing to 8086, Interfacing Hex keypad, Seven Segment display, ADC and DAC to 8086
- Elevator Inter facing, traffic light Controller and DC motor Interfacing , 8253 and 8259 interfacing to 8086
- 8051 and Atmega16 Microcontroller Architectures, Programming of 8051 and Atmega 16 microcontroller, Key pad and LCD Interfacing
- ARM microcontroller

**Co-Ordinator** **HOD** **Principal**

Principal
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