## Department of Information Science and Engineering

Accredited by NBA, New Delhi
(Validity: 01.07.2017 - 30.06.2020)

To,                                                                                   Date: 04/04/2019

The Principal,
GSSSIETW,
Mysuru.

Respected Sir,

Subject: *Requisition to conduct Two Day Workshop on "Microprocessors and its Applications" for IV Semester students from 04th to 05th April 2019 and release an amount of Rs. 5,750/- for the same.*

With reference to the above subject Department of Information Science Engineering intends to organize a Two Day Workshop on **"Microprocessors and its Applications"** for students of IV Semester. The Program will be conducted by Mr. Badrinath K. CEO, IORA Technologies, Bengaluru. The prerequisites for the workshop are basics of microprocessor. The Workshop includes hands on session for students to write machine-code and assembly language programming tasks which could be immediately executed. The workshop of "Microprocessor and its Application" is free of cost for students. The expected expenditure to organize the events is Rs. 5,750 [Rupees Five Thousand and Seven Hundred and Fifty only]. The details are indicated below. We request you to permit us to organize the workshop and kindly extend your support for the same, by approving above said amount from Special Budget.

Details:

| Sl. No. | Particulars | Amount in Rs. |
|---------|-------------|---------------|
| 1 | Remuneration for the Resource Person | 2,000/- |
| 2 | Accommodation | 1,300/- |
| 3 | Lunch, Tea, Biscuits(for 2 days) | 300/- |
| 4 | Certificate print | 650/- |
| 5 | Cash Prize for student | 1,500/- |
|  | Total Estimated Expenses(in Rupees) | 5,750/- |

Coordinator                                        HOD

Soumya Dath G                              Dept. of ISE

**Professor and Head**
Department of Information Science and Engineering
GSSSIETW, K.R.S. ROAD, Mysuru-570 016.

**Department of Information Science and Engineering**

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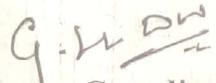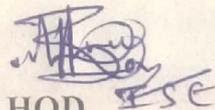(Validity: 01.07.2017 - 30.06.2020)

Date: 03/04/2019

## CIRCULAR

All the 4$^{th}$ Semester students are hereby informed to attend Tow day workshop arranged by Dept. of ISE under CSI on 4$^{th}$ and 5$^{th}$ April 2019 without fail. Attendance is compulsory.

Details are given bellow:

| Timings | Sem | Event | Resource Person | Venue |
|---------|-----|-------|-----------------|-------|
| 09.00 AM to 05.00 PM | IV | Two day Workshop on "Essentials of Prototyping Engineering Product Using ARM7 - LPC2148" | Dr. Badari Nath K., Chief Technical Consultant, IORA Technologies, Bengaluru | A-301 |

**Event Coordinator**

[Soumya Dath G]

HOD ISE

**Professor and Head**
Department of Information Science and Engineering
GSSSIETW, K.R.S. ROAD, Mysuru-570 016.

Geetha Shishu Shikshana Sangha (R)

# GSSS Institute of Engineering & Technology for Women

**(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka)**

## MYSURU-570 016 | Karnataka | India

# Department of Information Science & Engineering

**Accredited by NBA, New Delhi** (Validity: 01.07.2017 - 30.06.2020)

Organizes

## Two Day Workshop on

## "ESSENTIALS OF PROTOTYPING ENGINEERING PRODUCT USING ARM7 - LPC2148"

Under IQAC

In Association with

## Computer Society of India

## CERTIFICATE

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This is to certif that....................................................................................................

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participated in Two Day Workshop on "Essentials of Prototyping Engineering Product Using ARM7- LPC2148" Organized by Department of Information Science & Engineering, GSSSIETW, Mysuru held on April 4$^{th}$ & 5$^{th}$ 2019.

**Dr. Badri Nath K**
Chief Technical Consultant
IORA Technologies
Bangalore

**Dr. Reshma Banu**
Professor & Head,
Dept. of ISE.

**Dr. Shivakumar M**
Principal,
GSSSIETW, Mysuru.

# GSSS INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka)

KRS Road, Metagalli, Mysuru 570 016, Karnataka, India

## Department of Information Science and Engineering

Accredited by NBA, New Delhi
(Validity: 01.07.2017 - 30.06.2020)

Date: 05/04/2019

## FEEDBACK FORM

**Event:** Two day Workshop on "Essentials of Prototyping Engineering Product Using ARM7 - LPC2148

**Resource Person:** Dr. Badari Nath K., Chief Technical Consultant, IORA Technologies, Bengaluru

**Semester :-** IV

**Does this event:**

**Q1** : Provide Knowledge of modern engineering and IT tools for complex engineering activities with its limitation.

**Q2** : Motivation for independent and life-long learning with technological changes.

**Q3** : Design/develop solutions for complex engineering problems.

**Ratings: Excellent-3      Good-2      Satisfactory-1      Poor-0**

| Sl. No | USN | Student Name | Q1 | Q2 | Q3 | Please provide remarks for rating less than 2 to improve the event quality | Signature with Date |
|--------|-----|--------------|----|----|----|-----------------------------------|---------------------|
| 1 | 4GW17IS001 | ANUSHA C SHEKAR | 3 | 3 | 3 | | Anusha.C Shekar |
| 2 | 4GW17IS002 | BHAVANA N | 3 | 3 | 3 | | Bhavana N |
| 3 | 4GW17IS003 | BHUVANA A N | 3 | 3 | 3 | | Bhuvana |
| 4 | 4GW17IS004 | CHAITHRA K | 3 | 3 | 3 | | Chaithra K |
| 5 | 4GW17IS005 | CHINMAYI S | 3 | 3 | 3 | | Chinma |
| 6 | 4GW17IS006 | DARSHITHA K S | 3 | 3 | 3 | | |
| 7 | 4GW17IS007 | GANASHREE G | 3 | 3 | 3 | | G. Ganashre |
| 8 | 4GW17IS008 | GNANESHWARI D S | 3 | 3 | 3 | | |
| 9 | 4GW17IS009 | HARINI C B | 3 | 3 | 3 | | |
| 10 | 4GW17IS010 | HARSHITHA C | 3 | 3 | 3 | | Harshitha |
| 11 | 4GW17IS011 | HARSHITHA N | 3 | 3 | 3 | | H |
| 12 | 4GW17IS012 | HARSHITHA V | 3 | 3 | 3 | | Harshitha V |
| 13 | 4GW17IS013 | HOOR AFZA KHANUM | 3 | 3 | 3 | | Hoor Afza |
| 14 | 4GW17IS014 | KAVYA N S | 3 | 3 | 3 | | Kavya N S |
| 15 | 4GW17IS015 | KUSUMITHA N | 3 | 3 | 3 | | R |
| 16 | 4GW17IS016 | LIKITHA M P | 3 | 3 | 3 | | L |
| 17 | 4GW17IS017 | MADHUSHREE R | 3 | 3 | 3 | | Madee R |
| 18 | 4GW17IS018 | MAHIMA R | | | | AB | |
| 19 | 4GW17IS019 | MEDHA R | 3 | 3 | 3 | | |

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| Sl. No | USN | Student Name | Q1 | Q2 | Q3 | Please provide remarks for rating less than 2 to improve the event quality | Signature with Date |
|--------|-----|--------------|----|----|----|----|----|
| 20 | 4GW17IS020 | NAMANA PRASANNA | 3 | 3 | 3 | | Namang |
| 21 | 4GW17IS021 | NEHA S P | 3 | 3 | 3 | | Neha |
| 22 | 4GW17IS022 | PRANATHY G S | 3 | 2 | 3 | | prain |
| 23 | 4GW17IS023 | R SHRIYA | 3 | 2 | 3 | | Shriya |
| 24 | 4GW17IS024 | RANJITHA S K | 3 | 3 | 3 | | R |
| 25 | 4GW17IS025 | RASHIKA S | 3 | 3 | 3 | | sajya |
| 26 | 4GW17IS026 | SANJANA K J | 3 | 3 | 3 | | Sanjana |
| 27 | 4GW17IS027 | SHREYA M G | 3 | 3 | 3 | | Shagubash |
| 28 | 4GW17IS028 | SONA GANESH G | 3 | 3 | 3 | | Sonaya |
| 29 | 4GW17IS029 | SPANDANA M | 3 | 3 | 3 | | Spandana 08/4/19 |
| 30 | 4GW17IS030 | SPOORTHI M | 2 | 3 | 3 | | Spoorthi 8/4/19 |
| 31 | 4GW17IS031 | SUSHMA N | 3 | 3 | 3 | | Sushma 8/4/19 |
| 32 | 4GW17IS032 | SUSHMASHREE B S | 3 | 3 | 3 | | Sushma 8/4/1 |
| 33 | 4GW17IS033 | SYEDA SUKAINA FATIMA | 3 | 3 | 3 | | Syed |
| 34 | 4GW17IS034 | TASMIA KHAN | 3 | 3 | 3 | | Tasmia |
| 35 | 4GW17IS035 | THANUSHREE G N | 3 | 3 | 3 | | Thanu |
| 36 | 4GW17IS036 | THEJASWINI K M | 3 | 3 | 3 | | Thejaswini |
| 37 | 4GW17IS037 | THUSHARA N | 3 | 3 | 3 | | Thushara |
| 38 | 4GW17IS038 | VINUTHA M | 3 | 3 | 3 | | Vinutha 8/4/19 |
| 39 | 4GW17IS039 | YASHASWINI P | 3 | 2 | 3 | | yashwini P |
| 40 | 4GW17IS040 | YASHASWINI S | 3 | 3 | 3 | | yashaswini 8/4/19 |
| 41 | 4GW16IS050 | SOWJANYA | 3 | 3 | 2 | | Sowjanya 8/4/19 |
| Average | | | 3 | 3 | 2 | Observation | Coordinator Signature with Date |
| Attainment Level >80%-3 >70%-2 >60%-1 <60%-0 | | | | | | Students were able to gain knowledge on micro controllers & embedded system with extensive applications of ARM processors | |

EVENT COORDINATOR

Soumya Dath G

NBA COORDINATOR

Chaya P

HOD

Dr. Reshma Banu

**Professor and Head**

Department of Information Science and Engineering

GSSSIETW, K.R.S. ROAD, Mysuru-570 016.

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## Department of Information Science and Engineering
**Accredited by NBA, New Delhi**
**(Validity: 01.07.2017 - 30.06.2020)**

### Press Report on
### Two day Workshop on "Essentials of Prototyping Engineering Product Using ARM7 - LPC2148"
### Held recently (April 2019)
### For IV Semester students

Department of Information Science & Engineering had organized a Two Day Workshop on **"Essentials of Prototyping Engineering Product Using ARM7 - LPC2148"** in association with Computer Society of India, Bangalore and Mysore Chapter, under IQAC.

The program began with inaugural function with Resource Person **Dr. Badari Nath K.,** Chief Technical Consultant, IORA Technologies, Bengaluru, and **Dr. Reshma Banu**, HOD, Department of Information Science & Engineering, GSSSIETW, Mysuru gracing the occasion. Kum. Chinmayi S of 4th sem, Information Science & Engineering welcomed the gathering and introduced the Resource Person, Dr. Badari Nath K, Chief Technical Consultant, IORA Technologies, Bengaluru.



*Resource Person Dr. Badari Nath K, Chief Technical Consultant, IORA Technologies, Bengaluru, Dr. Reshma Banu, Professor & HOD, Dept. of ISE, Staff and VI Semester students of Department of Information Science & Engineering, GSSSIETW, Mysuru*

### Objectives of the workshop:
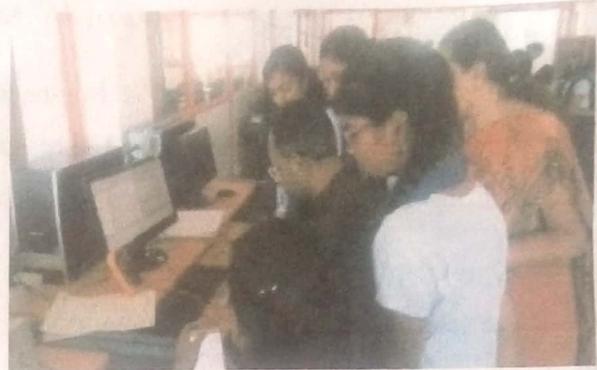This workshop will enable students to

- Understand the architecture of LPC2148 microcontroller.
- Gain Knowledge to develop projects using ARM7/LPC2148.
- Promote individual and team co-ordination with learning experience.

## Day 1 (4th April 2019)

The session started with the basics of Microprocessor, Microcontrollers and Embedded Systems and discussed the features of the same. The resource person briefed about basics of ARM processors which are extensively used in consumer electronic devices such as smart phones, tablets, multimedia players. The ARM processor's smaller size, reduced complexity and lower power consumption makes them suitable for increasingly miniaturized devices.



*Dr. Badari Nath K, Chief Technical Consultant, IORA Technologies, Bengaluru, discussing with staff and students of Department of Information Science & Engineering, GSSSIETW, Mysuru*

*Dr. Badari Nath K, Chief Technical Consultant, IORA Technologies, Bengaluru, explaining the working of Stepper motor with ARM 7/ LPC2148 to staff & students.*

## Day 2 ( 5th April 2019 )

The session started about assembler / cross assembler and Integrated Development Environment (IDE) kit i.e., Keil and Flash magic tools to start with programming. Further students were divided into 10 groups to carry out the experiments. The afternoon session continued about explaining the basics of the experiment to the individual batch to interface Stepper motor with ARM7/LPC2148. Students were made to implement the program on the rotation of stepper motor which was demonstrated. The session concluded with completing the stepper motor experiment successfully.

During the workshop, All the sessions of the two day workshop had assignments were given to the students on the topics covered during the sessions. The Workshop concluded with the Valedictory function which was attended by all the students and faculties of the Information Science & Engineering department where the cash prize was awarded for the best three projects.

*Valedictory function: Dr. Badari Nath K, Chief Technical Consultant, IORA Technologies, Bengaluru and Dr. Reshma Banu, Professor and Head, Dept. of ISE distributing the cash prize for the best project team.*

The workshop was much appreciated by the students with many of the enthusiastic participants sharing their experience on how the workshop enlightened them about practical knowledge of working on ARM7/ LPC2148 and motivated them to do more projects using ARM7/ LPC2148.

## OUTCOMES:

- Students understood the architecture of LPC2148 microcontroller.
- Executed small assignment programs using ARM7/LPC2148.
- Workshop boosted student's confidence in Microprocessor subject.
- Promoted team coordination.

**Event Coordinator**
**Soumya Dath G**

**HOD**

**Professor and Head**
Dept. of Information Science & Engineering
GSSSIETW, KRS Road, Mysuru - 570 016

**PRINCIPAL**

⌂ Home / Headlines

Headlines

# Two-day technical workshop held at GSSSIETW

👤 Murali    🕓 11/04/2019

Mysuru, April 11:- Department of Information Science and Engineering, GSSSIETW, organised a two-day workshop on "Essentials of prototyping engineering product using ARM7 – LPC2148" in association with Computer Society of India, Bengaluru and Mysuru chapter under IQAC.

The programme began with inaugural function with resource person Dr Badari Nath K, chief technical consultant, IORA Technologies, Bengaluru, and Dr Reshma Banu, HoD, Department of Information

city today e-paper Dated 11th April 2019.

Science and Engineering, GSSSIETW, Mysuru, gracing the occasion.

Objectives of the workshop: This workshop has enabled students to understand the architecture of LPC2148 microcontroller. Gain knowledge to develop projects using ARM7/LPC2148. Promote individual and team coordination with the learning experience.

On day 1 the session started with the basics of microprocessor, microcontrollers and embedded systems and discussed the features of the same. The resource person briefed about basics of ARM processors which are extensively used in consumer electronic devices such as smartphones, tablets, multimedia players. The ARM processor's smaller size, reduced complexity and lower power consumption make them suitable for miniaturised devices.

On day 2 the session discussed assembler/cross assembler and Integrated Development Environment (IDE) kit i.e., Keil and Flash magic tools to start with programming. Further students were divided into 10 groups to carry out the experiments. The afternoon session continued about explaining the basics of the experiment to the individual batch to an interface stepper motor with ARM7/LPC2148. Students were made to implement the programme on the rotation of stepper motor which was demonstrated. The session concluded with completing the stepper motor experiment successfully.

During the workshop, assignments were given to the students on the topics covered during the sessions. The Workshop concluded with the valedictory function which was attended by all the students and faculties of the Information Science and Engineering Department where the cash prize was awarded for the best three projects.
(MR)