



**Alva's Institute of Engineering & Technology**  
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225  
Phone: 08258-262725, Fax: 08258-262726

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**CIRCULAR**

Department of Computer Science & Engineering is organizing a **Faculty Development Program** on “**MICROCONTROLLER AND EMBEDDED SYSTEMS**” on 24<sup>th</sup> and 25<sup>th</sup> JAN-2020. In this view various committees have been formed for the smooth execution of the same. All the Committee members are informed to go through for various responsibilities and do the needful.

**Conver:er:**

Dr. Manjunath Kotari , Professor and Head, Dept. of CSE

**Organizer :**

Prof. Vasudev Shahapur

Associate Professor Dept. of CS&E

**Coordinator :**

Mr. Sushant Mangasuli

Assistant Professor Dept. of CS&E

**Members :**

Prof. Sayeesh

Prof. Harish Kunder

Prof. Harshitha G M

Prof. Megha Hegde D

**Keynote Speaker :**

Dr. Shivayogi B Ullagaddi, Special Officer VTU, Belagavi

**Resource Person :**

Prof. Mohan Kumar J

School of Information Sciences

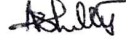


Manipal Academy of Higher Education

**Technical Support:**

Mr. Sriram, Manager

ESA Sales, Bangalore



**1. INVITATION & REGISTRATION COMMITTEE**

1. Ms. Ankitha Shetty, Assistant Professor 
2. Ms. Shruthi Shetty, Assistant Professor 
3. Ms Shilpa, Assistant Professor 

**Duties and responsibilities:**

- To send the brochures to all the colleges in Karnataka & well known institutes of others states of India.
- Collect the registration fee from the participants and provide the stationary items along with registration & accommodation fee receipt.
- Collect the correct details of the participants and keep the correct count of the participants.
- Preparing Invitation of workshop and distribute the same
- Inviting the Principal, Dean, All the HOD's, Librarian, Press & Media Coordinator, All the staff members of CSE/ISE Department.
- Collection of the feedbacks from participants at the end of workshop
- To collect the necessary stationary items (Scribbling Pad, Pen, Folder with screen printing, workshop materials)
- Certificate Printing and writing

**2. FUNCTION ORGANIZING & STAGE SETTING COMMITTEE**

1. Mrs. Harshita G M, Assistant Professor 
2. Ms. Megha D Hegde, Assistant Professor 
3. Mrs. Merlyn Melita M, Assistant Professor

**Duties and responsibilities:**

- Prepare the **banner layout** and get approval by HOD for further printing process.
- To decide the schedule and plan for its effective and successful execution within the stipulated time.
- Introduction of Key Note Speaker.
- Introduction of Resource Persons.
- To provide sufficient copies of the **detailed programme list** and to place required copies of the same for the kind glance of dignitaries on the dais.

- Decide the staff's to introduce the Chief Guests, welcome speech & vote of thanks.
- To arrange **memento, garlands, flower bouquet, and water** arrangements for the guests on the stage, **name plates** of the dignitaries.
- To look into the arrangement of stage accessories, decorative items, appropriate and sufficient number of chairs to the guest on the dais, chairs to the participants, **table coverings, flower vases, flower pots, lamp (deepa), lamp-oil, artahi, batthi, match-box, water bottles**
- To arrange appropriate banner showing required details.
- To make arrangements for sound systems with all its accessories such as sufficient number of sound boxes, microphones, cordless mike sets, well and perfectly working generator systems, projector and Laptop
- To prepare a layout of systematic arrangement of chairs, separate for staff and student community.

### **3. LAB INFRASTRUCTURE SETUP COMMITTEE**

1. ~~Mrs. Lavita~~ Lab Assistant & *Ms. Ashwitha, Lab Assistant*
2. ~~Mr. Ashish~~ Lab Assistant *Ashish*

#### **Duties and responsibilities:**

- To make arrangements for sound systems with all its accessories such as sufficient number of sound boxes, microphones, cordless mike sets, well and perfectly working generator systems, projector, Laptop
- Installation of necessary softwares for the systems.

### **4. PHOTO, PRESS & MEDIA COMMITTEE**

1. Mrs. Mangala Kini, Assistant Professor *Blank*
2. Mrs. Vidya, Assistant Professor *Vidya*

#### **Duties and responsibilities:**

- To assign the responsibility of capturing every events.
- To stress to capture every significant and memorable happenings
- Finally to collect the photos and handover the same along with the **brief report** to the workshop Coordinator and Media Coordinator.

### **5. DISCIPLINARY COMMITTEE**

1. Mr. Harish kunder, Associate Professor *Harish*
2. Mr. Sayeesh, Sr. Assistant Professor *Sayeesh*



### **Duties and responsibilities:**

- To plan for maintaining absolute discipline
- To make sure that no empty seats in the front few rows except left 1<sup>st</sup> row of the venue place.

### **6. FOOD, ACCOMMODATION & TRANSPORTATION COMMITTEE**

1. Mr. Hemanth Kumar N. P, Sr. Assistant Professor, (Accommodation for participants in Boys Hostel) — *NH/2020*
2. Mr. Vivek Sharma, Assistant Professor, (Accommodation for Resource Persons in Punarjanma guest house)
3. Ms. Shilpa, Assistant Professor, (Accommodation for participants in Girls Hostel) — *Sh*

### **Duties and responsibilities:**

- To Arrange morning break fast, Lunch and Evening Tea.
- Preparing coupons for lunch
- To arrange the accommodation, Food and Transportation Facility for delegates



**Workshop Coordinator**

*SH/1/2020*  
**H.O.D**  
Dept. Of Computer Science & Information Technology  
Alva's Institute of Professional Studies  
Mijar, MOODEBIDRI - 576 225



Two Days Faculty Development Programme  
on  
**"MICROCONTROLLER AND  
EMBEDDED SYSTEMS"**  
24<sup>th</sup> and 25<sup>th</sup> JAN 2020

**ORGANIZING COMMITTEE**

**Chief Patron** : Dr. M. Mohan Alva  
Chairman, AEF

**Patron** : Sri. Vivek Alva  
Managing Trustee, AEF

**Chief Advisor**: Dr. Peter Fernandes  
Principal, AIET

**Convener** : Dr. Manjunath Kotari  
Professor & Head, Dept. of CS&E

**Organizer** : Prof. Vasudev Shahapur  
Associate Professor Dept. of CS&E

**Coordinator** : Prof. Sushant Mangasuli  
Assistant Professor Dept. of CS&E

**Members** Prof. Sayeesh  
Prof. Harish Kunder  
Prof. Harshitha G M  
Prof. Megha Hegde D

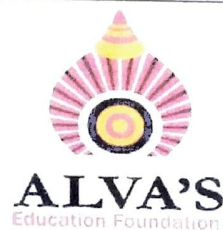
**ADDRESS FOR CORRESPONDENCE**

**Prof. Vasudev Shahapur  
&**

**Prof. Sushant Mangasuli**

Phone: +91 9008811246, +91 9742164671

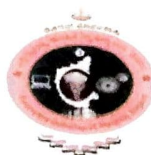
Email: sushanth@aiet.org.in



**Alva's Institute of Engineering &  
Technology**  
Shobhavana, Mijar, Moodbidri - 574225  
Web: aiet.org.in



Faculty Development Programme on  
**"MICROCONTROLLER AND  
EMBEDDED SYSTEMS"**  
(As per VTU 2018-19 Scheme (18CSL48))



In Association with VTU and CSI

24<sup>th</sup> and 25<sup>th</sup> JAN 2020  
Early Bird Registration: Rs 500 /-  
Register on or before 31<sup>st</sup> Dec, 2019

**Key Note Speaker**

**Dr. Shivayogi B Ullagaddi**  
Special Officer,  
Visvesvaraya Technological University,  
Belagavi.

**Resource Person**

Prof. Mohan Kumar J  
School of Information Sciences  
Manipal Academy of Higher Education

**Technical Support**

Mr. Sriram, Manager  
ESA Sales, Bangalore

**Organized By**

Department of Computer Science and Engineering

**Alva's Institute of Engg. & Technology**

"Shobhavana Campus", Mijar, Moodbidri-574225

Mangalore, D.K., Karnataka

Phone: 08258 - 262724, 262725, 262726

**Registration Fee: Rs. 600/-**  
**Last Date for Registration: 10/01/2020**





## ALVA'S INSTITUTE OF ENGG. & TECHNOLOGY

**ALVA'S** Institute of Engineering and Technology, Mijar, Moodbidri is a premier Engineering Institute of Alva's Education Foundation, established in the year 2008, located adjacent to Mangalore-Sholapur National Highway, which is 24 Kms from Mangalore International Airport. The college is recognized by All India Council for Technical Education (AICTE), New Delhi & Affiliated to Visvesvaraya Technological University, Belagavi. The college is ranked as one of the best Technical Institute in South Canara region. The institute offers under graduate programs in 5 branches of Engineering – Computer Science & Engineering, Civil Engineering, Electronics & Communications Engineering, Information Science & Engineering, Mechanical Engineering. Computer Science & Engineering, VLSI Design & Embedded Systems. Seven departments at the institute has been recognized as research centers by Visvesvaraya Technological University, Belagavi.

### Department of Computer Science & Engineering

Department of Computer Science and Engineering started functioning from the year 2008, with an intake of 60 and has enhanced to 120 from academic year 2012-13. The Post Graduate course, M.Tech in Computer Science and Engineering, was introduced from the academic year 2012-13 with an intake of 18 students. Department is recognized as a research centre from VTU. Faculty members are actively involved in co-curricular and extracurricular activities with association and professional bodies like CSI/ISTE. Department of Computer Science & Engineering has always been on a high growth and path since its establishment. To keep pace with latest technologies, department has employed experienced and dedicated faculty with strong commitment towards research work. The department is dedicated to education, research and overall excellence. For skill development Department have highly equipped add-on labs like Revision lab, Innovation Lab and iOS Lab.

The students are well placed in reputed industries as well as continuing higher education in the premier institutes. The Department of CSE organizes various events such as workshops, Seminars, Technical talks, delivered by eminent resource persons from academia & industry, who have excelled in their field.

The department regularly conducts special courses on advanced topics. Department of CSE encourages the faculty and students for participating in research activities for enhancing their subject knowledge and acquire information regarding current trends.

### VISION OF THE DEPARTMENT

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

### MISSION OF THE DEPARTMENT

- To produce skilled, creative software developers through rigorous training.
- To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.
- To implement the ideas of research and innovations in interdisciplinary domains.
- To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.

### PROGRAM SPECIFIC OUTCOMES

**A graduate of the Computer Science and Engineering Program will exhibit:**

**PSO1: Professional Skills:** The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.

**PSO2: Problem-Solving Skills:** The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.

**PSO3: Successful Career and Entrepreneurship:** Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development.

### PROGRAM EDUCATIONAL OBJECTIVES

**The graduates of Computer Science & Engineering will able to**

**PEO1:** Exhibit fundamental strength in core courses of Computer Engineering to solve the problems of computing world.

**PEO2:** Adapt and contribute the emerging technological changes.

**PEO3:** Employed in computing profession or engaged in learning to pursue higher studies.

### FDP OBJECTIVES

#### Learning Objectives:

This FDP (18CSL48) will enable us to:

- Develop and test Program using ARM7TDMI/LPC2148
- Conduct the experiments on an ARM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' & Keil Uvision-4 tool/compiler.
- To gain experience in programming languages that are used in current industrial practice.
- To promote innovative projects and patent them for commercialisation.

#### Laboratory hands-on Outcomes:

Should be able to:

- Develop and test program using ARM7TDMI/LPC2148
- Conduct the various experiments on an ARM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' & Keil Uvision-4 tool/compiler.

### TARGET AUDIENCE

The FDP is open for the participants from **academia and industry**. Number of participants will be limited to 30. The selected participants will be informed of their selection by e-mail.



To,

The Principal

AIET, Mijar

Respected Sir,

Sub:- Account details of Five days National Level workshop on "Development of Web Oriented Applications using PHP & MySQL and Orientation Program towards Research" held on 16<sup>th</sup> 20<sup>th</sup> January 2017 – reg

- |  |         |   |
|--|---------|---|
| 1. Advance amount taken from the college.....            | 2000/-  | ✓ |
| 2. Registration Fee collected from External participants |         |   |
| CASH.....  | 12200/- | ✓ |
| DD.....  | 2400/-  | ✓ |
| 3. Accommodation Fee collected from participants.....    | 1500/-  | ✓ |
| (Rs. 500/- each, No. of participants =3)                 |         |   |

**TOTAL.....Rs. 18100 /-**

**EXPENSES – paid by the department of CSE**

- |  |        |   |
|--|--------|---|
| 1. Remuneration to the Resource persons .....              | NIL    | ✓ |
| 2. TA to the Resource persons.....                         | NIL    | ✓ |
| 3. Flower bouquet.....                                     | 200 /- |   |
| 4. Mineral water to the Resource person.....               | 30/-   |   |
| 5. Lunch , Morning Breakfast, ( M/s Food court, AIET)..... | 5610/- | ✓ |
| 6. Morning & Evening Tea.....                              | 2180/- | ✓ |

**TOTAL.....Rs. 8020 /-**

**EXPENSES – Account Pay**

- |   |        |  |
|---|--------|--|
| 7. Certificate (Qty :50) (MadhubaN).....  | 791/-  |  |
| 8. Banner (6"x4", 2 No) ( MadhubaN).....  | 495/-  |  |
| 9. Folder, Pen & Note Pad (Qty : 66)..... | 2150/- |  |

**TOTAL.....Rs. 3436/-**

**Total expenses towards workshop.....Rs. 11456**

**Balance to be refunded.....(Rs.18100 – Rs. 8020) = Rs. 10080/-**

**-2000**

{ DD .....Rs. 2,400/- }  
{ CASH .....Rs. 7680/- }

Co-convenor

*Sforzani*  
Vivek Sharma.S

*Pls do the Needful*  
*flw-finance*  
*21/1/17*  
*21/1/17*  
HOD



To,

The Principal

AIET, Mijar

Respected Sir,

Sub:- **DD EnCash- Reg**

With respect to above subject, I enclose DD's of participants who have attended a FIVE days National level workshop on "**Development of Web Oriented Applications using PHP & MySQL and Orientation Program towards Research**" held on 16<sup>th</sup> & 20<sup>th</sup> January, 2017. Please make arrangements for the same.

DD details is as follows:

Sl.No.	Drawee Bank	DD No.	Amount
1.	Syndicate Bank	162571	600
2.	Syndicate Bank	162562	600
3.	Syndicate Bank	162563	600
4.	Vijaya Bank	879332	600
TOTAL			Rs. 2400/-
Two Thousand Four Hundred only			

Thanking you,

Co-conveners







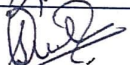









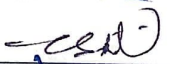

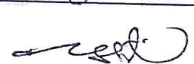
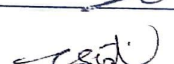
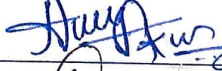


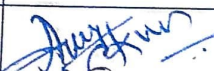











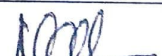






Vivek Sharma. S  
sfprgocul

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Development Programme on

"MICROCONTROLLER AND EMBEDDED SYSTEMS" from 24<sup>th</sup> and 25<sup>th</sup> Jan 2020.

Attendance Details

SI No.	Name	24-01-2020 FN	24-01-2020 AN	25-01-2020 FN	25-01-2020 AN
1.	Dr. G. P. Hegde				
2.	Sheha Shetty R.				
3.	Amrut D. Lokare				
4.	Sandeep N Kugali				
5.	G.M. CHELLALSHETRA				
6.	Dr. Vijaya Kumar A.v.				
7.	Dhananjaya B				
8.	Dhruva P Achar				
9.	Mangunath Ramath R				
10.	Sudashana K.				
11.	Yuvaraj T				



**ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Faculty Development Programme on**  
**"MICROCONTROLLER AND EMBEDDED SYSTEMS" from 24<sup>th</sup> and 25<sup>th</sup> Jan 2020.**

12.	TANYA HENDEZ				
13.	Vasanth Nayak.				
14.	NAGARAJA HEBBAR				
15.	Dr. PRASANNA KUMAR m.k				
16.	Dr. Usha Divakarla				
17.	H. MANOJ T. GADIYAR				
18.	Mr. Rakshith M.D.				
19.	Mr. Sreenatha. M				
20.	Bhavana B 18				
21.	Niranjana C. Kundur				
22.	Dr. Vijaya Kumal. A. v.				
23.	Ms. Vanyashree				
24.					





# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Affiliated to VTU, Belagavi, Recognized by DTE, Govt. of Karnataka and Approved by AICTE, New Delhi



## Department of Computer Science & Engineering

### Certificate of Participation

This is to certify that Mr./Mrs./Ms./Dr. .... DHRUVA P ACHAR .....

of , ..... MITK , ..... KUNDAPURA ..... has attended Two Days Faculty


Development Program on “Microcontroller and Embedded Systems” held from 24<sup>th</sup> - 25<sup>th</sup>, January 2020.

  
Convener

Prof. Vasudev S Shahapur

  
H.O.D

Dr. Manjunath Kotari

  
Principal

Dr. Peter Fernandes

# FACULTY DEVELOPMENT PROGRAMME REPORT

*Organized by,*  
Department of Computer Science and Engineering

In association with  
VTU, Belagavi and Computer Society of India (CSI)

**“Microcontroller and Embedded Systems”**

**24<sup>th</sup> and 25<sup>th</sup> Jan 2020**

**Newspaper link**

**<http://upayuktha.com/2-days-fdp-worksop-held-at-alvas-engineering-college-moodubidire/>**

**Conducted for All External Participants from Various Institutions  
(Teaching, non-teaching, research scholars)**

<b>FDP Coordinators</b>	
Prof. Vasudev Shahapur	Mr. Sushant Mangasuli

**2019-20**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Two days FDP on  
“Microcontroller and Embedded Systems”**

**BRIEF REPORT**

Alva's Institute of Engineering and Technology conducted a **two days** Faculty Development Programme on “**Microcontroller and Embedded Systems**” for all external participants from various institutions (Teaching, non-teaching, research scholars) organized by Department of Computer Science and Engineering in Association with **VTU Belagavi** and **CSI** 24<sup>th</sup> and 25<sup>th</sup> Jan 2020. The FDP was inaugurated by **Prof. Manjunath Kothari, H.O.D, Dept. CSE** and **Dr. Shivayobi B Ullagaddi, Special Officer VTU Belagavi** and all The HODs of various departments and all staff members, student volunteers and all external participants from various institutes were also present during the inauguration function along with the resource person **Dr. Mohan Kumar J, School of Information Sciences, Manipal Academy of Higher Education** and Technical support **Mr. Sriram, Manager, ESA Sales, Bangalore**









**Prof. Manjunath Kothari, H.O.D, Dept. CSE AIET Moodbidri** had given a brief about the Program and outcomes of embedded system hands-on sessions.








The event inauguration was published in Upayuktha newspaper

<http://upayuktha.com/2-days-fdp-workshop-held-at-alvas-engineering-college-moodubidre/>




The screenshot shows a web browser window with the URL <http://upayuktha.com/2-days-fdp-workshop-held-at-alvas-engineering-college-moodubidre/>. The page displays a news article from Upayuktha newspaper, dated January 23, 2020. The article is titled "ಆಲ್ವಾ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಎರಡು ದಿನದ ಎಫ್‌ಡಿಪಿ ಕಾರ್ಯಾಗಾರ" (FDP Workshop Held at Alva's Engineering College for Two Days). The article mentions that the workshop was inaugurated by the Vice-Chancellor of the college, Dr. S. S. Srinivas, and was attended by a large number of faculty members and students. The workshop was organized by the college's management and was a successful event.




**Upayuktha News**  
6 minutes ago

ಮಾನವನ ಬದುಕು ಅನ್ಯವಾದ ನಿರಂತರ ಸುತ್ತುವ ಚಕ್ರದ ಮಾದರಿಯಲ್ಲಿದೆ. ಪುನರುತ್ಥಾನವು ಕೋಟಿಗಟ್ಟಲೆಯ ಅತ್ಯಾಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಸೌಲಭ್ಯಗಳುಳ್ಳ ವಾಹನಗಳ ಬಳಸಿದರೂ ಅದರಲ್ಲಿರುವ ಚಕ್ರದ ಕಾಯ ಎಂದೆಂದಿಗೂ ಅಚ್ಚಳಿಯದೇ ಉಳಿಯುತ್ತಾ ಎಂದೂ ಬಂಜೊಳದ ರಾಣಿ ಅಬ್ಬಕ್ಕ ತುಳು ಅಡ್ಡಿಯನ ಕೇಂದ್ರದ ಅದ್ವೈತ ಡಾ|| ತುಕಾರ್ ಪೂಜಾರಿ ಹೇಳಿದರು. ಸಂತ ಫಿಲೋಮಿನಾ



ಲಉಪನ್ಯಾಸಕರು ತಮ್ಮಲ್ಲಿನ ಜ್ಞಾನವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಹಂಚಿಕೊಳ್ಳುವುದರ ಜತೆಗೆ ಪ್ರಸ್ತುತ ಕಾಲದ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ಅವಿಷ್ಕಾರದ ಕುರಿತು ಮಾಹಿತಿಯನ್ನು ಹೊಂದಿರಬೇಕು. ಅಲ್ಲದೆ ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಅವಲೋಕನದ ಜ್ಞಾನವನ್ನು ಹೆಚ್ಚಿಸಬೇಕು. ಪ್ರಕೃತಿಯು ಅನೇಕ ವಿಷಯಗಳನ್ನು ಕಲಿಸುತ್ತದೆ. ಅವುಗಳನ್ನು ಅವಲೋಕಿಸಿ ಕಲಿಯುವ ಮನೋಭಾವ ನಮ್ಮದಾಗಿರಬೇಕು. ಪ್ರಾಯೋಗಿಕ ಜ್ಞಾನವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಹಂಚುವಾಗ ಅದರ ಕುರಿತು ಉಪನ್ಯಾಸಕರು ಆಳವಾದ ಜ್ಞಾನ ಸಂಪಾದಿಸಿಕೊಂಡಿರಬೇಕು ಎಂದು ಹೇಳಿದರು.

ವಿಜ್ಞಾನಿ ನ್ಯೂಟನ್ ಹೇಗೆ ಹಲವಾರು ಸಿದ್ಧಾಂತಗಳನ್ನು ಪ್ರತಿಪಾದಿಸಿ ಕೊನೆಗೆ ಜನಪ್ರಿಯತೆಯನ್ನು ಪಡೆದರೋ, ನಾವು ಜೀವನದಲ್ಲಿ ಹೋರಾಟ ಮಾಡುವುದರಿಂದ ಮಾತ್ರ ಯಶಸ್ಸನ್ನು ಪಡೆಯಲು ಸಾಧ್ಯ ಎಂದರು.

ಎರಡು ದಿನದ ಅಧ್ಯಾಪನಾ ಅಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ರಾಜ್ಯದ ವಿವಿಧ ಕಾಲೇಜುಗಳಿಂದ 24 ಜನ ಉಪನ್ಯಾಸಕರು ಪಾಲ್ಗೊಂಡಿದ್ದರು.


ಮಣಿಪಾಲ್ ಸ್ಕೂಲ್ ಆಫ್ ಇನ್ವೆಸ್ಟಿಗೇಟಿವ್ ಸೈನ್ಸ್ ಪ್ರೊ.ಮೋಹನ್ ಕುಮಾರ್ ಜಿ, ಕಾಲೇಜಿನ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ವಿಭಾಗದ ಸಂಯೋಜಕರಾದ ಪ್ರೊ. ವಾಸುದೇವ ಶಂಕರ್, ಕಾರ್ಯಕ್ರಮ ಸಂಚಾಲಕ ಡಾ. ಮಂಜುನಾಥ್ ಕೊರಾಡಿ ಮುಂತಾದವರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಪ್ರೊ.ವಾಸುದೇವ ಶಂಕರ್ ಸ್ವಾಗತಿಸಿ, ಕಾರ್ಯಕ್ರಮ ಸಂಯೋಜಕ ಸುತಾಂತ್ ಮಂಗುಳಿ ವಂದಿಸಿ, ಪ್ರಾರ್ಥನೆಗೆ ಮೇಘಾ ಹೆಗ್ಡೆ, ಡಿ ನಿರೂಪಿಸಿದರು.

(ಉಪಯುಕ್ತ ನ್ಯೂಸ್)

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ಟಿಕ್ಟಕ್‌ನಲ್ಲಿ ಉಪಯುಕ್ತ ನ್ಯೂಸ್ ಫಾಲೋ ಮಾಡಿ



ಲಉಪನ್ಯಾಸಕರು ತಮ್ಮಲ್ಲಿನ ಜ್ಞಾನವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಹಂಚಿಕೊಳ್ಳುವುದರ ಜತೆಗೆ ಪ್ರಸ್ತುತ ಕಾಲದ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ಅವಿಷ್ಕಾರದ ಕುರಿತು ಮಾಹಿತಿಯನ್ನು ಹೊಂದಿರಬೇಕು. ಅಲ್ಲದೆ ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಅವಲೋಕನದ ಜ್ಞಾನವನ್ನು ಹೆಚ್ಚಿಸಬೇಕು. ಪ್ರಕೃತಿಯು ಅನೇಕ ವಿಷಯಗಳನ್ನು ಕಲಿಸುತ್ತದೆ. ಅವುಗಳನ್ನು ಅವಲೋಕಿಸಿ ಕಲಿಯುವ ಮನೋಭಾವ ನಮ್ಮದಾಗಿರಬೇಕು. ಪ್ರಾಯೋಗಿಕ ಜ್ಞಾನವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಹಂಚುವಾಗ ಅದರ ಕುರಿತು ಉಪನ್ಯಾಸಕರು ಆಳವಾದ ಜ್ಞಾನ ಸಂಪಾದಿಸಿಕೊಂಡಿರಬೇಕು ಎಂದು ಹೇಳಿದರು.

ವಿಜ್ಞಾನಿ ನ್ಯೂಟನ್ ಹೇಗೆ ಹಲವಾರು ಸಿದ್ಧಾಂತಗಳನ್ನು ಪ್ರತಿಪಾದಿಸಿ ಕೊನೆಗೆ ಜನಪ್ರಿಯತೆಯನ್ನು ಪಡೆದರೋ, ನಾವು ಜೀವನದಲ್ಲಿ ಹೋರಾಟ ಮಾಡುವುದರಿಂದ ಮಾತ್ರ ಯಶಸ್ಸನ್ನು ಪಡೆಯಲು ಸಾಧ್ಯ ಎಂದರು.

ಎರಡು ದಿನದ ಅಧ್ಯಾಪನಾ ಅಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ರಾಜ್ಯದ ವಿವಿಧ ಕಾಲೇಜುಗಳಿಂದ 24 ಜನ ಉಪನ್ಯಾಸಕರು ಪಾಲ್ಗೊಂಡಿದ್ದರು.

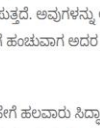
ಮಣಿಪಾಲ್ ಸ್ಕೂಲ್ ಆಫ್ ಇನ್ವೆಸ್ಟಿಗೇಟಿವ್ ಸೈನ್ಸ್ ಪ್ರೊ.ಮೋಹನ್ ಕುಮಾರ್ ಜಿ, ಕಾಲೇಜಿನ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ವಿಭಾಗದ ಸಂಯೋಜಕರಾದ ಪ್ರೊ. ವಾಸುದೇವ ಶಂಕರ್, ಕಾರ್ಯಕ್ರಮ ಸಂಚಾಲಕ ಡಾ. ಮಂಜುನಾಥ್ ಕೊರಾಡಿ ಮುಂತಾದವರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಪ್ರೊ.ವಾಸುದೇವ ಶಂಕರ್ ಸ್ವಾಗತಿಸಿ, ಕಾರ್ಯಕ್ರಮ ಸಂಯೋಜಕ ಸುತಾಂತ್ ಮಂಗುಳಿ ವಂದಿಸಿ, ಪ್ರಾರ್ಥನೆಗೆ ಮೇಘಾ ಹೆಗ್ಡೆ, ಡಿ ನಿರೂಪಿಸಿದರು.

(ಉಪಯುಕ್ತ ನ್ಯೂಸ್)

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ಟಿಕ್ಟಕ್‌ನಲ್ಲಿ ಉಪಯುಕ್ತ ನ್ಯೂಸ್ ಫಾಲೋ ಮಾಡಿ



ಲಉಪನ್ಯಾಸಕರು ತಮ್ಮಲ್ಲಿನ ಜ್ಞಾನವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಹಂಚಿಕೊಳ್ಳುವುದರ ಜತೆಗೆ ಪ್ರಸ್ತುತ ಕಾಲದ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ಅವಿಷ್ಕಾರದ ಕುರಿತು ಮಾಹಿತಿಯನ್ನು ಹೊಂದಿರಬೇಕು. ಅಲ್ಲದೆ ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಅವಲೋಕನದ ಜ್ಞಾನವನ್ನು ಹೆಚ್ಚಿಸಬೇಕು. ಪ್ರಕೃತಿಯು ಅನೇಕ ವಿಷಯಗಳನ್ನು ಕಲಿಸುತ್ತದೆ. ಅವುಗಳನ್ನು ಅವಲೋಕಿಸಿ ಕಲಿಯುವ ಮನೋಭಾವ ನಮ್ಮದಾಗಿರಬೇಕು. ಪ್ರಾಯೋಗಿಕ ಜ್ಞಾನವನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಹಂಚುವಾಗ ಅದರ ಕುರಿತು ಉಪನ್ಯಾಸಕರು ಆಳವಾದ ಜ್ಞಾನ ಸಂಪಾದಿಸಿಕೊಂಡಿರಬೇಕು ಎಂದು ಹೇಳಿದರು.

ವಿಜ್ಞಾನಿ ನ್ಯೂಟನ್ ಹೇಗೆ ಹಲವಾರು ಸಿದ್ಧಾಂತಗಳನ್ನು ಪ್ರತಿಪಾದಿಸಿ ಕೊನೆಗೆ ಜನಪ್ರಿಯತೆಯನ್ನು ಪಡೆದರೋ, ನಾವು ಜೀವನದಲ್ಲಿ ಹೋರಾಟ ಮಾಡುವುದರಿಂದ ಮಾತ್ರ ಯಶಸ್ಸನ್ನು ಪಡೆಯಲು ಸಾಧ್ಯ ಎಂದರು.

ಎರಡು ದಿನದ ಅಧ್ಯಾಪನಾ ಅಭಿವೃದ್ಧಿ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ರಾಜ್ಯದ ವಿವಿಧ ಕಾಲೇಜುಗಳಿಂದ 24 ಜನ ಉಪನ್ಯಾಸಕರು ಪಾಲ್ಗೊಂಡಿದ್ದರು.

ಮಣಿಪಾಲ್ ಸ್ಕೂಲ್ ಆಫ್ ಇನ್ವೆಸ್ಟಿಗೇಟಿವ್ ಸೈನ್ಸ್ ಪ್ರೊ.ಮೋಹನ್ ಕುಮಾರ್ ಜಿ, ಕಾಲೇಜಿನ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ವಿಭಾಗದ ಸಂಯೋಜಕರಾದ ಪ್ರೊ. ವಾಸುದೇವ ಶಂಕರ್, ಕಾರ್ಯಕ್ರಮ ಸಂಚಾಲಕ ಡಾ. ಮಂಜುನಾಥ್ ಕೊರಾಡಿ ಮುಂತಾದವರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಪ್ರೊ.ವಾಸುದೇವ ಶಂಕರ್ ಸ್ವಾಗತಿಸಿ, ಕಾರ್ಯಕ್ರಮ ಸಂಯೋಜಕ ಸುತಾಂತ್ ಮಂಗುಳಿ ವಂದಿಸಿ, ಪ್ರಾರ್ಥನೆಗೆ ಮೇಘಾ ಹೆಗ್ಡೆ, ಡಿ ನಿರೂಪಿಸಿದರು.

(ಉಪಯುಕ್ತ ನ್ಯೂಸ್)

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ಟಿಕ್ಟಕ್‌ನಲ್ಲಿ ಉಪಯುಕ್ತ ನ್ಯೂಸ್ ಫಾಲೋ ಮಾಡಿ

**Chief Guest and Keynote Speaker Dr. Shivayogi B Ullagaddi** Special Officer, VTU has delivered talk about program to all participants and students.









### FDP Objectives

This FDP (18CSL48) will enable us to:

- Develop and test Program using ARM7TDMI/LPC2148
- Conduct the experiments on an ARM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' & Keil Uvision-4 tool/compiler.
- To gain experience in programming languages that are used in current industrial practice.
- To promote innovative projects and patent them for commercialisation.

### Laboratory hands-on Outcomes:

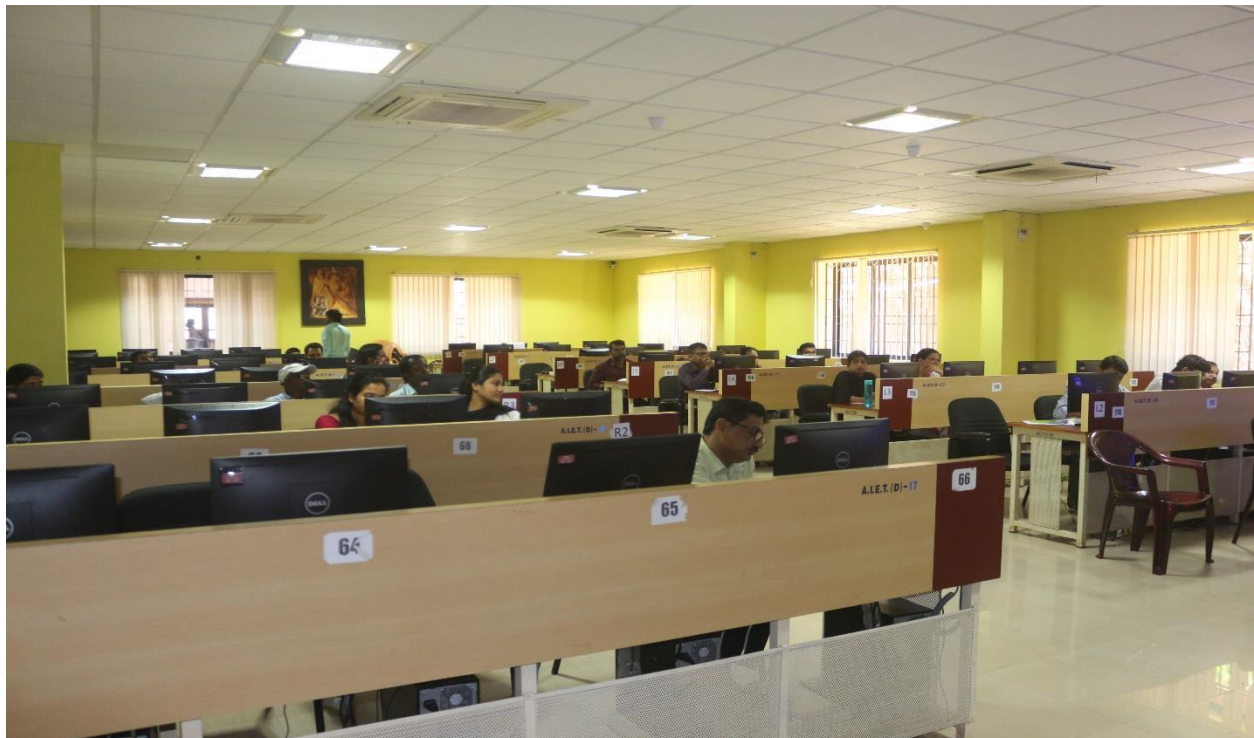
Should be able to:

- Develop and test program using ARM7TDMI/LPC2148
- Conduct the various experiments on RM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' & Keil Uvision-4 tool/compiler

FDP Schedule		
<b>DAY 1</b> 24/01/20	8:00 AM to 9:30 AM	<b>Registration</b>
	9:30 AM	<b>Inauguration and Keynote Address</b>
	FORENOON	Introduction to ARM Architecture and Instruction Set
		Assembly programming using Keil
		Introduction to LPC21xx microcontrollers
	AFTERNOON	Programming with Keil and Proteus peripheral and interfaces ( LED, LCD, 7-Segment, UART, Timer, ADC, DAC)
<b>DAY 2</b> 25/01/20	FORENOON	Programming with Keil and Proteus for interfaces –contd
	AFTERNOON	Working with Evaluation Board
Valedictory Function		

**The proceedings of the workshop are as follows:**

### Day 1 Sessions:





Day 2 Sessions:



The day was ended with a valedictory function and event was narrated by Ms. Megha Hegde, and Mr. Sushant Mangasuli and at the end of the function **Dr. Manjunath Kothari H.O.D** Department of CSE, Resource Person **Dr. Mohan Kumar J**, School of Information Sciences, Manipal Academy of Higher Education distributed certificates to all the participants. All media persons were also present for the event. And also Collected oral feedbacks from external participants. Finally at end of the programme as a token of gratitude presented a memento to the resource person.







**Oral Feedback :**





## FEEDBACK ANALYSIS

**Two days FDP on “Microcontroller and Embedded Systems”**

**Resource Person: Dr. Mohan Kumar J**, School of Information Sciences, Manipal Academy of Higher Education

**Technical support : Mr. Sriram, Manager**, ESA Sales, Bangalore

**Date: 24th and 25th Jan 2020**

**Participants:** External Participants from various institutes and participants from Inter-Department Inhouse Faculties

**TOTAL FEEDBACK FORMS RECEIVED: 21**

Q. Number	Option 1 NOT AT ALL	Option 2 SOME WHAT	Option 3 VERY MUCH
Workshop Content	02	16	24
Workshop Design	0	36	27
Workshop Facilitator	0	17	67
AVG	02 /189 = 1.05%	69 / 189 = 36.50%	118 / 189= 62.43%

Out of **21** students **62.43 %** of students given very good feedback and **36.50 %** had given moderate feedback.