

## Report on the Faculty Development Program “ADVANCED ELECTRONICS ENGINEERING TOOLS”

The Department of Electronics and Communication Engineering, MVJ College of engineering conducted a **Faculty Development Program (FDP) on “ADVANCED ELECTRONICS ENGINEERING TOOLS”** in association with ISRO, HAL Management Academy, NI Lab VIEW Academy, Texas Instruments Lab and Robo Lab. This FDP was planned for one week to enhance the coding skills on Texas Instruments TIVA-C series processors, ARDUINO kits programming and LabVIEW software and hardware. On the first day Dr.Shivaprasad- Professor, HAL Management Academy gave a lecture on “Creativity for Engineers”. On the second day morning there was lectures on “Basics of Remote Sensing and GIS”, “Earth Observation systems”, “Image Processing and Mobile Applications” by Dr. Ramasubramoniam, Mr.Ramachandra Hebbar and Mr.P.V. Vinod respectively. The afternoon session was engaged by trainers of MVJCE who gave hands on training on LabVIEW software. On the third day hands on training was given on Elvis kit by trainers of MVJCE. The fourth day of FDP was handled by the trainers of MVJCE who gave hands on training on Arduino kits Programming. On the fifth day hands on training on Tiva C series kits was given by trainers of MVJCE. The detailed report about the FDP is given below:

### Day 1 :

Inaugural function was held at 9.30 a.m in Seminar Hall No.4. The Inaugural function started with a prayer song. Then Dr. Hameem Shanavas- HOD, ECE and the Event coordinators- Mrs. Aparna, Mrs. Aswini, Mrs. Shima Ramesh welcomed Dr. Gupta- HOD, Aeronautical Department, Dr.V. Venkatesham-Research Council in0charge, the speaker- Dr. Shivaprasad and the participants of the FDP. This was followed by the lighting of the lamp by the dignitaries and guest speaker.



Inauguration of FDP on "ADVANCED ELECTRONICS ENGINEERING TOOLS" on 18/12/2017 at Seminar Hall 4 with a prayer song in the presence of (from Lto R) Dr.V Venkatesham, Research Council Incharge, Dr Shivaprakash, Guest Speaker and Dr Gupta, HOD, Aeronautical Engineering.

**Session-1** The speaker, Dr. Shivaprasad gave brief introduction on “Creativity for Engineers”.

**Session-2** Dr. Shivaprasad explained the 40 Principles of creativity in engineering with examples.



Guest Speaker Dr.Shivaprasad delivering a session on Creativity for Engineers on 18/12/2017 at Seminar Hall 4.

## Day 2

**Session -1** The Speaker, Dr.Ramasubramoniam, explained about ““Basics of Remote Sensing and GIS”

**Session -2** The Speaker, Mr.Ramachandra Hebbar, gave a lecture on “Earth Observation systems and GIS” ,

**Session -3** The Speaker, Mr.P.V. Vinod, gave a brief idea on “Image Processing and Mobile Applications”

**Session -4** The Speaker, Mrs. Aparna- Associate Professor, MVJCE explained the programming structures in LabVIEW



The audience listening to Dr.Ramasubramoniam, delivering a session on "Basics of Remote Sensing and GIS" on day 2 of FDP on "Advanced Electronics Engineering Tools" at Seminar Hall 4.

## Day 3

**Session – 1 and Session – 2** Hands on training on Elvis kit by Mrs. Aparna , Associate Professor, MVJCE.



Ms.Aparna P,Associate Professor,Deptment of ECE,giving an Hands on session on usage of ELVIS kit in NI Labview Lab on day 3 of FDP on "Advanced Electronics Engineering Tools".

## Day – 4

**Session -1** Mr. Naeem Ahmed- Assistant Professor, MVJCE gave hands on training on “Arduino Kit Programming”.

**Session – 2** Mr. Bhanuteja, Assistant Professor, MVJCE gave hands on training on “Hardware Interfacing of Arduino Kits”



HOD giving introductory talk about robotics, 21/12/17



Naeem Ahmed talk on Arduino basics and IDE programming



Bhanuteja training faculties for line follower robot



Hands on session for preparing line follower robot

## Day 5

**Session -1,** Mrs. I. Thanga Dharsni, Assistant Professor, MVJCE gave hands on training on “Tiva C Series Kits programming”

**Session -2,** Mrs. Kala, Assistant Professor, MVJCE gave hands on training on Interfacing of sensor hub booster pack, which has inbuilt temperature sensor, accelerometer, humidity sensor with Tiva C Series kits.



Ms.I Tangadarsini,Assistant professor,Department of ECE,training thre faculties on "TIVA c series lit programming" on Day 5 of FDP on "Advanced Electronics Engineering Tools" in Texas Instruments Lab.

The FDP was concluded with a valedictory function headed by Pof. M.Brindha- Vice Principal, MVJCE. Dr. Hameem Shanavas- HOD, ECE Department, MVJCE then gave the vote of thanks after which Pof. M.Brindha- Vice Principal, MVJCE distributed the certificates to all participants.



Professor M .Brindha,Vice-principal,MVJCE, interacting with the faculty members of Department of ECE in Robotics And Automation Lab at the Valedictory function of FDP on "Advanced Electronics Engineering Tools".