SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Submitted to the Principal for Approval

10.4.17

As part of Faculty Development, it is proposed to conduct a Faculty Development Programme in EC 6703 Embedded and Real Time Systems offered as a core subject for VII Sem ECE students under Anna University, Regulations 2013.

The FDP is certified by the affiliating Anna University and it is planned to be conducted for seven working days at our college during 02/05/2017 to 10/5/2017.

A minimum of 21 sessions covering the entire syllabus needs to be accommodated. It is planned to have 11 External and 10 Internal resource people for handling the technical sessions. The targeted audience would be our faculty and faculty members from various Engineering colleges. A budget of Rs 43000/- is estimated, the break up details are given.

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S.No.	Details	Amount in INR	
1.	Honorarium & Transport for the External experts [11 sessions]	33,000/-	
2.	Banner printing	500/-	
3.	Brochure printing and postal charges	1000/-	
4.	Biscuits and Tea (For 7 days)	5700/-	2 Paisu
5.	Lunch for delegates	2800/-	No lux
	Total	43000/-	1

As per the University norms, the programme is to be conducted for seven days and done at free of cost, Also, Sponsorship from various concerns like M/s Ohmtronics, IAPT and twice from Computer Society of India had been obtained for conducting other Workshops and conferences.

Hence a sponsorship to a maximum of Rs 5000/- could be obtained and it is requested to permit the remaining amount of Rs 38000/- towards the conduct of FDP.

It will be helpful while taking up NBA Inspection in the recent years. I request you to accept this proposal in the interest of Faculty Development at our college and grant us the fund for the same.

Dr.S. Muthukumar
Convenor & HoD-EC

The Secretary

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REGISTRATION FORM

Faculty Development Training Programme

on

EC6703 EMBEDDED AND REALTIME SYSTEMS

13th to 21st June 2017

- 1. Name:
- 2. Age and DoB:
- 3. Designation:
- 4. Name of the Institution:
- Institution Affiliated to Anna University: Yes/No
- 6. Address for Communication:
- 7. Official Address:

E-mail:

Phone:

- 8. Subjects Handled in last Two years:
- Professional Experience(in years)
 Industry: Teaching:

Signature of the Applicant

DECLARATION

The information furnished by me is true to the best of my knowledge. I agree to abide by the rules and regulation governing the FDTP. If selected, I shall attend the program for the entire duration.

Date :

Place:

Signature of the Applicant

SPONSORSHIP

Dr./Mr./Ms

an employee of our institution is hereby allowed to attend the FDTP on "EC6703 Embedded and Real time Systems", approved by Anna University, Chennai. He/She will be permitted to attend the program for the entire duration, if selected.

Signature of the HOD/Principal

Date :

Registration form can be sent by post/email.

Email/Mobile:

menaka@svce.ac.in/ 9655955257 srivi@svce.ac.in/ 9444438641 kalyani@svce.ac.in / 8248128355 anju@svce.ac.in/9840159602 pmuthu@svce.ac.in/9840523145 rajan@svce.ac.in/9942842979

SEVEN DAYS FOTP

ON

EC6703- EMBEDDED AND REAL TIME SYSTEMS

13th to 21st June 2017

Co-ordinators

Dr. S.Muthukumar & Ms.D.Menaka



Approved by

Anna University Chennai

Organized by



Department of Electronics and Communication Engineering Sri Venkateswara College of Engineering

(Autonomous - Affiliated to Anna University)
Pennalur, Sriperumbudur (Tk) - 602 117
Tamii Nadu, India

Phone: 044 27152000, Extn: 200

ABOUT THE COLLEGE

(NAAC). The college attained Autonomous status since last academic year. The college is situated in situated on Chennai-Bangalore National Highway Venkateswara Educational and Health Trust. The college conducts 10 UG Programmes, 10 PG courses are approved by AICTE and affiliated to a quiet environment about 37 km from Chennai and Sri Venkateswara College of Engineering (SVCE), a Anna University, Chennai. The college is accredited by National Assessment and Accreditation Council (NH4) at Pennalur, in Sriperumbudur taluk, premier self-financing engineering college was started in the year 1985 and is managed by Sri Programmes in Engineering/Technology. Kancheepuram district.

ABOUT THE DEPARTMENT

also organizes Department organizes a National Level Student Technical Symposium "UPAGRAHA", a National Level Conference "National Conference on Signal Networking doctorates. The department is equipped with ARM Tanner Softwares, ADS and IE3D Simulation softwares and S band Network Analyser. The 2002 and PG program in Applied Electronics was started in the year 2012.It has strength of around members in the department, 7 of them being processor, Spartan 3E, Spartan 6, Cadence and The Department of Electronics and Communication Communication Engineering. A PG program in Communication Systems was started in the year 750 students guided by a team of devoted and diligent faculty members. There are about 44 faculty Engineering was started in the year 1985 with an under graduate program in Electronics and Workshops, Seminars and FDPs periodically, every year and Communication Processing. (NCSCN)"

ABOUT THE FDTP

The FDTP is approved by Anna University, Chennai. All topics in the syllabus of the seventh semester subject, EC6703 - Embedded and Real time Systems will be covered.

TOPICS TO BE COVERED

- Introduction to Embedded Computing
- ARM Processors, Case studies,CPU Bus and co-processors
- Designing with computing platforms Live Demo on a computing platform

Components of Embedded Program

- **Multirate systems**
- Analysis and Architecture System Design
- Real time operating systems
- Internet of Things
- Performance Optimization of Embedded optimization strategies for processes Power computing,
- Product Development and Quality Assurance

REGISTRATION FEE

Chennai with free of cost to the faculty members of The course is offered by the Anna University, Anna University, Chennai and its affiliated colleges.

college web site, www.svce.ac.in. The registration is restricted to 25, with first come first basis. No TA/DA will be provided. The participants can use The registration form can be downloaded from the college bus for to and fro journey.

ORGANIZING COMMITTEE

CHIEF PATRON: Vice-Chancellor,

Anna University, Chennai.

Dr. S. Ganesan, Registrar, PATRON

Anna University,

Chennai.

Dr. K. Shanthi, CHAIR

Dr. D. Sridharan, Director, CFD

Addl. Director, CFD

Dr. S. Ganesh CO CHAIR:

Principal, SVCE Vaidyanathan,

HoD - Department of Dr.S.Muthukumar

Communication Electronics &

Engineering

CO-ORDINATORS:

Dr. S.Muthukumar, Professor,

Dept of ECE

Assistant Professor, Ms.D.Menaka Dept of ECE

VENUE:

Department of Electronics & Communication Video Hall,

Engineering,

IMPORTANT DATES:

: 02-06-2017 Submission of Application : 05-06-2017 Intimation of selection Confirmation by Participants: 07-06-2017

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering
Anna University approved
Seven Days FDTP on EC6703 - Embedded and Real Time Systems
13th - 21st June 2017
Session Details

SI. No	Date / Day	08.30 AM to 10.00 AM	10.15 AM to 11.45 AM	12.30 PM to 2.00 PM	02.15 PM to 03.30 PM
1	13.06.2017 Tuesday	Registration & Inauguration	Introduction to Embedded Computing- Complex systems and micro processors— Embedded system design process- Model train controller Dr.V.SathieshKumar Assistant Professor,Anna University,MIT Chennai	ARM Processors-Instruction sets preliminaries - ARM Processor - CPU: programming input and output-supervisor mode, exceptions and traps Dr.S.Muthukumar, Professor&Head, ECE Dept., SVCE	Live Demo on Computing platform- Ms.Reethi Srinivasan/ Ms.S.Kalyani/ M.K.Varadarajan AP, ECE Dept., SVCE
2	14.06.2017 Wednesday	Typical issues seen in products deployed in field- Mr.Ashok Govindarajan Technical lead, Sasken Technologies	CPU Bus-Memory devices and systems Dr.P.C.Kishore Raja Professor,ECE Dept., Saveetha School of Engineering.	Co-processors- Memory system mechanisms - CPU performance- CPU power consumption- Ms.G.Padmavathy Professor,ECE Dept,SVCE	Structural Description Language- Dr.S.Ganesh Vaidyanathan, Professor and Principal, SVCE
3	15.06.2017 Thursday	Components for embedded programs-Models of programs-Assembly, linking and loading – compilation techniques-Program level performance analysis-Dr.P.Jothilakshmi,Prof,ECE Dept.,SVCE	Designing with computing platforms and Platform-level performance analysis-Dr.Avudaiammal Prof, ECE Dept., St.Joseph college of Engg	Introduction to Processes- Dr.R.Gayathri Assoc Prof, ECE Dept., SVCE	Live Demo on Computing platform- Ms.Reethi Srinivasan/ Ms.S.Kalyani/ M.K.Varadarajan AP, ECE Dept., SVCE
4	16.06.2017 Friday	Power Optimization- power optimization strategies for processes - Dr.S.R.Malathy, Assoc Prof, ECE Dept., SVCE	RTOS-Example Real time operating systems- POSIX- Windows CE Dr.B.Priya Assoc Prof, ECE Dept., REC,Chennai	System analysis and architecture design- Ms.R.Kousalya, AP, ECE Dept., SVCE	CASE STUDY- Data compressor - Alarm Clock Ms.D.Menaka, AP, ECE Dept., SVCE

5	19.06.2017 Monday	System Design Techniques-Design methodologies- Design flows - Requirement Analysis - Specifications Mr.Venkatramaiah,AP, ECE Dept., SMIT, Chennai	Performance optimization of embedded computing- Software performance optimization — Program level energy and power analysis and optimization — Analysis and optimization of program size- Program validation and testing- Mr.P.Arul, AP, ECE Dept., SVCE	Scheduling Algorithms- Priority based scheduling- Interprocess communication mechanisms Ms. T.J. Jeyaprabha AP, ECE Dept., SVCE	Evaluating operating system performance-Ms.K.Srividhya,AP, ECE Dept., SVCE
6	20.06.2017 Tuesday	CASE STUDY- Telephone answering machine-Engine control unit -Ms.B.Sarala. AP, ECE Dept., SVCE	Product Development & Quality Assurance techniques- Mr.V.Senthil Kumar Lead Engineer, Mahindra Research Valley, Mahindra and	CASE STUDY-Audio player, Video accelerator- Dr.G.A.Sathish Kumar,Prof, ECE Dept., SVCE	Operating systems-Introduction - Multiple tasks and multiple processes - Multirate systems- Preemptive real-time operating systems Ms.G. Janakasudha, AP,CSE Dept,SVCE
7	21.06.2017 Wednesday	IOT & Consumer Electronics Architecture- Dr.Vijayarajeswaran- VI Microsystems Pvt. Ltd	Mahindra Pvt, Ltd IOT & Consumer Electronics Architecture- Dr.Vijayarajeswaran- VI Microsystems Pvt. Ltd	CASE STUDY- Software modem- Digital still camera – Ms.L.Anju, AP, ECE Dept., SVCE	Valedictory Function

Distribury.

DR.S. MUTHUKUMAR, HODIECE

FOTP COORDINATOR

D. L

MS.D. MENAKA, APTECE

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BIO DATA

Senthil Kumar has 14 years of experience in the automotive domain. He is working as Lead Engineer in Mahindra Research Valley, Mahindra & Mahindra Ltd. He is expertise in multiple product development like Engine control unit, Instrumental Cluster, Body Control Module & Telematics Development. He worked with client for the product development, Validation and complete product development life cycle.

Previously, Senthil worked for Robert Bosch Engineering Solution & Ashok Leyland.

Apart from 7years experience, he has filed 3 Patents in Vehicle Diagnostics and auto recovery of communication channel failure. He Published a paper in an International Journal & presented in 3 international Conferences.

He has received many awards and appreciations for his dedication. He is awarded with Mahindra's top Rise Award for the successful launch of DiGiSENSE.

He graduated with M.Tech., from SRM University in Embedded System Technology and M.Sc Electronics from Bharathidhasan University.

Mr. S.B. Senthil Kumar

Lead Engineer, Department of Infotronics Technology Automotive & Department & Departm

(G.KALYANI)

Dr.S. Muthukumar Hod/ECE

REGISTRATION FORM

Faculty Development Training Programme

on

EC6703 EMBEDDED AND REALTIME SYSTEMS

13th to 21st June 2017

- 1. Name: P. RANJANI
- 2. Age and DoB: 26 & 1719 / 1990
- 3. Designation: ASSISTANT PROFESSOR
- 4. Name of the Institution: 171-KumaRasamy
 GLEGE OF ENG.
- Institution Affiliated to Anna University: Yes/No
- 6. Address for Communication: P. RANJANJ

MALAUR PALAYAM, KARUR

- 7. Official Address MKLE, KARUR E-mail: Fanjani P. Coc @ mkceac . in Phone: 8508429847
- 8. Subjects Handled in last Two years: DLC, LTC, EDC, M&I, EMT
- 9. Professional Experience(in years)
 Industry Teaching 4 years

Signature of the Applicant

DECLARATION

The Information furnished by me is true to the best of my knowledge, I agree to abide by the rules and regulation governing the FDTP. If selected, I shall attend the program for the entire duration.

Date : 13/5/17

Place : KARUR

Signature of the Applicant

SPONSORSHIP

DE/ME/MS P. RANJANI

an employee of our institution is hereby allowed to attend the FDTP on "EC6703 Embedded and Real time Systems", approved by Anna University, Chennai. He/She will be permitted to attend the program for the entire duration, if selected.

Signature of the HDD/Principal

Date : 13/5/17 Place : KARUR

Registration form can be sent by post/email.

Email/Mobile: menaka@svce.ac.in/ 9655955257 srivi@svce.ac.in/ 9444438641 kalyani@svce.ac.in / 8248128355 anju@svce.ac.in/9840159602 pmuthu@svce.ac.in/9840523145 rajan@svce.ac.in/9942842979 SEVEN DAYS FOTP

ON

EC6703- EMBEDDED AND REAL TIME SYSTEMS

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Phone: 044 27152000, Extn: 200

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Anna University approved

Seven Days FDTP on EC6703-Embedded and Real Time Systems 13th-21st June, 2017

A Report

The Department of Electronics and Communication Engineering organized Seven Days Faculty Development Training Programme on EC6703 - Embedded and Real Time Systems from 13th-21st June 2017 approved by Centre for Faculty Development, Anna University, Chennai. The Programme was inaugurated by Dr.V.SathieshKumar, Assistant Professor, MIT, Chennai. He delivered an introductory talk on Embedded Systems and System Design Process with various real time scenarios wherein the area of Embedded systems play a vital role.

A total of 24 lecture sessions and 2 laboratory sessions covering all the major topics as prescribed by Anna University for the subject 'EC6703-Embedded and Real Time Systems' were conducted (List enclosed). These technical lectures and laboratory classes were handled by the experts invited from various institutions, industries and also senior faculty members of the host college.

The Faculty Development Training Program was intended to provide an opportunity to faculty members employed in institutions affiliated to Anna University for upgrading their knowledge in the area of Embedded Systems. The FDTP was conducted with 19 external participants in and around TamilNadu and 6 internal participants (List enclosed).

The program provided an insight to the recent updates and current technologies prevailing in the industry which was touched upon by the industrial experts. The participants provided a positive feedback about the sessions handled by both the academic and industrial experts. The practical sessions were also helpful to the participants to understand the applications of Embedded Systems.

We would like to express our gratitude to Anna University for providing us approval to conduct the workshop. We also express our heartfelt thanks to our management and the Principal for their supports including financial assistance for the conduct of the programme.

Dr.S.Muthukumar, FDTP Coordinator, Professor & Head,

ECE Dept.
SVCE

Head of the Department

Electronics and Communication Engineering
Sri Venkatesusers College of Engineering
Snoerumbudur - 602 117, India

Ms.D.Menaka
FDTP Coordinator,
Assistant Professor,
ECE Dept.
SVCE

Lecture by Dr.R.Vijayarajeswaran, Managing director, VI Microsystems



Feedback by a Participant



SRI VENKATESWARA COLLEGE OF ENGINEERING Department of Electronics and Communication Engineering

Anna University approved

Seven Days FDTP on EC6703 - Embedded and Real Time Systems 13th-21st June, 2017

List of Participants

External Participants

S.No	Participant Name	Designation	College Name
1	Mr.K.Karthick	Assistant Professor	Rajalakshmi Engineering College
2	Ms.K.Banumathi	Assistant Professor	Panimalar Institute of Technology
3	Ms.D.Jothi	Associate Professor	RMK Engineering College
4	Ms.P.Latha	Associate Professor	RMK Engineering College
5	Ms.M.Rhevathi	Assistant Professor	RMK Engineering College
6	Ms.P.Ranjani	Assistant Professor	M Kumarasamy College of Engineering
		Assistant Professor	M Kumarasamy College of Engineering
7 8	Ms.S.K.Saranya Mr.S.Karthik	Assistant Professor	Kumaraguru College of Technology
9	Mr.Timothy Dhayakar Paul	Assistant Professor	Kumaraguru College of Technology
10	Mr.G.Tony Santhosh	Assistant Professor	Alpha College of Engineering
11	Mr.A.Ravindiran	Assistant Professor	Sri Sairam Institute of Technology
12	Mr.Ramaprasad Maharana	Assistant Professor	Sri Sairam Institute of Technology
13	Ms.Kalaipriya. O.Saravanan	Assistant Professor	Saveetha Engineering college
14	Ms.Elizabeth.J.C	Assistant Professor	Saveetha Engineering college
15	Ms.Subhashini.S	Assistant Professor	Saveetha Engineering college
16	Ms.C.P.Gowthami	Assistant Professor	GRT Institute of Engg. and Technology
17	Ms.R.Bamalakshmi	Associate Professor	GRT Institute of Engg. and Technology
18	Mr.M.S.Ganeshmurthy	Assistant Professor	Sri Venkateswara College of Technology
19	Mr.D.Anand	Assistant Professor	K.L.N.College of Engineering

Internal Participants

S.No	Participant Name	Designation	College Name
1	Ms.K.S.Pavithra	Assistant Professor	Sri Venkateswara College of Engineering
2	Ms.S.Sinthamani	Assistant Professor	Sri Venkateswara College of Engineering
3	Ms.S.Reethi	Assistant Professor	Sri Venkateswara College of Engineering
4	Ms.A.Bharathipriya	Assistant Professor	Sri Venkateswara College of Engineering
5	Mr.R.Nagaraj	Assistant Professor	Sri Venkateswara College of Engineering
6	Mr.S.P.Sivagnana Subramaniam	Assistant Professor	Sri Venkateswara College of Engineering

DR.S. MUTHUKUMAR, HOD / ECE

FOTP COORDINATOR

Ms . D . MENAKA, APIECE

FOTP COORDINATOR

CENTRE FOR FACULTY DEVELOPMENT

Anna University, Chennai-600025.

FACULTY DEVELOPMENT TRAINING PROGRAMME - Summer Vacation-2017

FEEDBACK FORM

Title of the Programme Duration EC 6703 - Embedded Lyraal rime systems 13th lune to 28th lune 2014 Name & Designation K. Banumathi Name of the College Panimalar Engineering No. of Resource Persons Internal ! 18 External : 8 4. Comments about the following: (Please tick the relevant box e.g. 5 - highest, 1 - lowest) i. Subject content ii. Coverage of syllabus Technical Presentation by 2 Internal Faculty Technical Presentation by External Faculty Course Materials Supplied **Tutorials** Laboratory facilities / Site visit Level of Excellence and Academic Standards of FDTP Ability to Identify, formulate and solve the problems Ability to use IT techniques and Tools to Deliver Lecturer 6. Developed new skitts / improved the ones had already 7. The example and practical exercises 3 helped to understand Reception & Hospitality Accommodation & Catering 11. Opinion / Suggestion / Effectiveness of the course : Signature of the Participant

Date : 21/6/17



CENTRE FOR FACULTY DEVELOPMENT ANNA UNIVERSITY



This is to certify that Dr. / Mr. / Ms. D. Anand, A.P.

K.L.N. College Of Engineering, Modurac

has participated in the Faculty Development Training Programme
on Ec 6703-Embedded D Real Home Systems

at Sri Venkateswara College of Eng, kanchipuran

from 13th to 21st June 2017.

Director
Centre for Faculty Development

Registrar Anna University

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