



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A.Rangampet, Near Tirupathi – 517 102

DEPARTMENT OF BIOTECHNOLOGY

TWO DAY FACULTY DEVELOPMENT PROGRAMME ON IMMUNOTECHNOLOGY UNDER TEQIP-II

A Two day Faculty Development Programme on **Immunotechnology** is organized by Dept. of Biotechnology under **TEQIP-II** on **25th and 26th March, 2013**.

During the inauguration of the programme **Dr. V. Vijayalakshmi**, Dy. Director, Stem cell division, NIN, Hyderabad, **Prof. S. Krupanidhi**, Dept. of Biotechnology, Vignan University, Vadlamudi, Guntur and **Prof. T. Gopala Rao**, Special officer, SVET spoke on the need for up gradation of subject knowledge and skills to become a good teacher and also stressed the role of a teacher in guiding the students to achieve their goals. About 50 faculty members from different colleges participated in the programme.

In her inaugural lecture **Dr. Vijayalakshmi** explained the current and future potential of stem cell therapy for various diseases.

Prof. S. Krupanidhi delivered a talk on immunogenetics and explained the importance of role of immunogenetics in human health. In his second lecture, he delivered a talk on Classroom immunotechniques.

Dr. D. Sreenivasulu, Associate Dean, College of Veterinary Science, Tirupati delivered a talk on Tumor immunology and gave a glimpse of recent trends in cancer therapy.

Prof. D.V.R. Saigopal delivered a talk on viral vaccines and explained the importance of role of vaccines in human health.



Dr. Vijayalakshmi Dy. Director, NIN, Hyderabad delivering a talk on stem cells and regeneration.



Prof. S. Krupanidhi, Dept. of Biotechnology, Vignan University delivering a talk on Immunotechnology.



Prof.D.V.R.Saigopal, Dept. of Virology, Tirupati delivering a talk on Viral Vaccines.



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DEPARTMENT OF BIOTECHNOLOGY

ONE DAY WORKSHOP ON BIOINFORMATIC TOOLS UNDER TEQIP-II

A one day workshop on Bioinformatic Tools for M.Tech students is organized by Dept. of Biotechnology under TEQIP-II on 31st May, 2013.

During the forenoon session Dr. A. Dinakara Rao, Reader, Center for Bioinformatics, Pondicherry University, Puducherry delivered a talk on various tools used in drug design and development and focused on docking software used in the drug design.

Later in the afternoon session Dr. A. Dinakara Rao spoke on how to use the Protein structure prediction software, homology modeling and briefly stressed on the new software namely OCAPS developed by the students at Center for Bioinformatics, Pondicherry university, Pondicherry.

Finally participants interacted with the resource person and cleared their doubts regarding various tools used in Bioinformatics.



Dr.A. Dinakara Rao delivering a talk on drug design and development



Dr. Dinakara Rao explaining the bioinformatic tools to the participants.

P. Hargis
HOD, BOT

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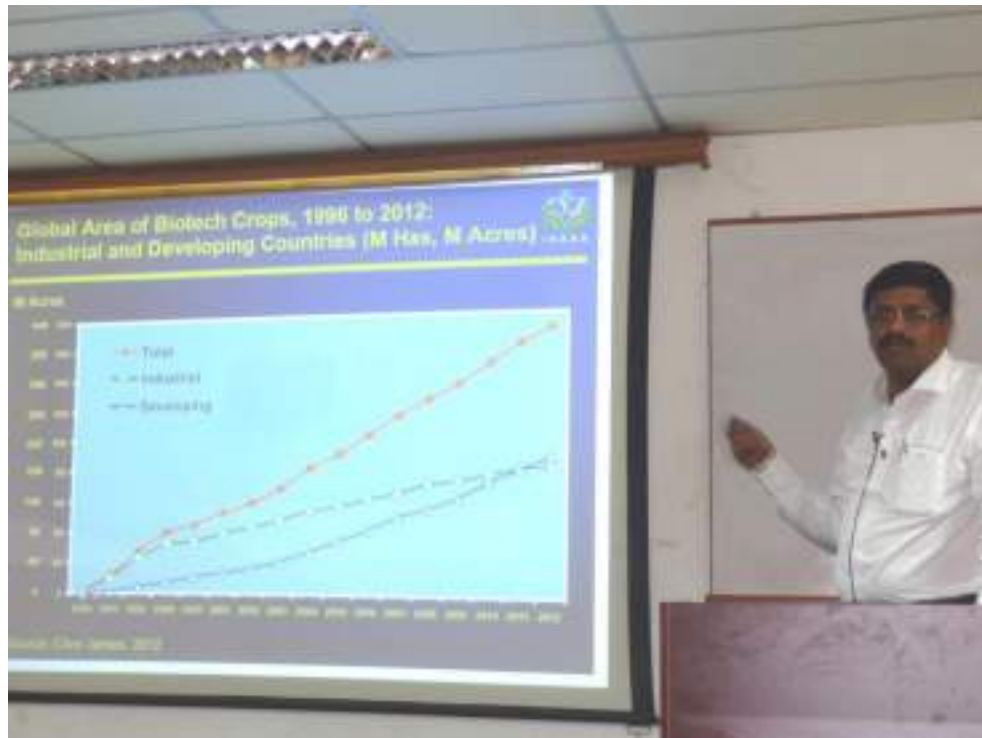
Department of Biotechnology

EXPERT LECTURE UNDER TEQIP-II

An Expert lecture on “Biotechnology in Agriculture” by Dr.P.Sairam Reddy, DGM (Biotechnology), JK Agri-Genetics, Hyderabad is organized for I M.Tech & IV B.Tech (Biotech) students and Faculty of Biotechnology in E-Classroom on 28th February,2013 (Thursday) from 11.00AM to 1.30 PM .

Dr. P.Sairam Reddy explained the current and future potential of biotechnology in India and discussed the role of biotechnologist in increasing the crop productivity.

He focused on latest genetic engineering tools that are being used in biotech industry. The students and faculty were richly benefited by the lecture.



Dr.P. Sairam Reddy delivering the expert lecture



Dr.P.Sairam Reddy addressing the students.

P. Sairam Reddy
HOD, BOT

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Department of Biotechnology

EXPERT LECTURE UNDER TEQIP-II

An Expert lecture on “Process Engineering and Economics” by Mr. B. Srikanth, Vice president, Jupiter Biosciences limited, Hyderabad is organized for I M.Tech & IV B.Tech (Biotech) students and Faculty of Biotechnology in the E-Classroom on 09th March, 2013 from 11.00AM to 1.30 PM .

Dr. B. Srikanth explained the latest Process Engineering methods and data related to Economics with certain examples from Jupiter Biosciences.

The students and faculty were richly benefited by the lecture. He clarified doubts expressed by students and faculty at the end of the session.



HOD, BOT

Department of Computer Science and Engineering

NATIONAL CONFERENCE

Two day National Conference on **“Advances in Computer Networks and Information Security NCACNS – 2K12”** under TEQIP-II is organized by the Dept. of CSE for faculty members of various institutions during **12 - 13 July 2012**.

Dr. Chittaranjan Hota, BITS (Pilani), Hyderabad. Dr. Ch. D. V. Subba Rao, Professor, SVUCE, Tirupati, Dr. B. Eswara Reddy, HOD, Dept. of CSE, JNTUA, Dr. P. Chenna Reddy, Professor, JNTU, Pulivendala, Dr. G. Geethan Kumari, BITS (Pilani), Hyderabad, Dr. C. Shoba Bindu, Associate Professor, JNTUA, are the Co-Chair Persons. All the Resource Persons were delivered a brief lecture on Computer Networks and Information Security.



Presentation in the National Conference

Department of Computer Science and Engineering

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Presentation in the National Conference



Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME

Faculty Development Programme on **“Advances in Natural Language Processing”, under TEQIP – II** is organized by the Dept. of CSE for faculty members of various institutions in EDC Cell during 1 - 2 Mar 2013, 2013.

Dr. KaviNarayana Murthy, Dept. of Computer Information Sciences, University of Hyderabad, Hyderabad. Mr. Vijaya Kumar Damera, Associate Professor, NGIT Hyderabad. Mr. Sudhas Kurdhekar, Software Developer, Alpha Tech Solutions, Bangalore. Mr. Srinivasu B, Research Scholar, University of Hyderabad, Hyderabad are the resource persons. The Resource Persons explained the Natural Language processing and its applications in various fields.



Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME

A Two Day Faculty Development Program on “Wireless Sensor Networks and Simulation Using NS-2”, under TEQIP – II is organized by the Dept. of CSE for faculty members of various institutions in EDC Cell during **8-9 March, 2013**.

Dr. N. HariBabu, Professor, Department of IT, St. Peters Engineering College, Hyderabad, Mr. T. S. Pradeep Kumar, Assistant Professor (Senior Grade), VIT University, Chennai, was the resource persons. The Resource persons quoted the Wireless sensor simulation, and Network simulation methodologies in features. The FDP is very much interactive with the participants to get a clear overview for the researches.



Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME

A Three Day Faculty Development Program on **Recent Trends and Research Perspective in DMDW** under TEQIP – II is organized by the Dept. of CSE for faculty members of various institutions in EDC Cell during **30 Mar - 01 Apr 2013**.

Dr. S. K. Gupta, Chair Professor, Dept. of CSE, IIT, Delhi delivered about the Data warehousing and Data Mining Concepts related to the Research works. Dr. DVLN.Somayajulu, Professor, Dept. of CSE, NIT, Warangal delivered the lecture about the unsupervised learning methods used to extract the patterns.

Dr. P. Radha Krishna, Principal Research Scientist, Infosys, Hyderabad delivered lecture about the Classification methodologies helps for Research works. **Dr. S. Viswanandha Raju**, Professor & HOD, Dept. of CSE, JNTU, Jagityal explains the various Supervised methods helps for Data mining works. **Mr. M. Vidyasagar**, Project Leader, Syntel elucidates the session with the various methodologies helps for data mining in various fields.

Department of Computer Science and Systems Engineering

**Faculty Development Programme on
“Research Trends in Automated Software Testing”**

The Department of Computer Science and Systems Engineering organized FDP on **“Research Trends in Automated Software Testing”**, during 28-30, June 2013 under TEQIP – II.

The FDP focused on Quality of Testing in present day market and testing. Tools like RFT, RQM for testing software applications, Test Automation Tools, Recording and running a test, parameterization were discussed.



Chief Guest Addressing the Participants



Mr. G. Titupati Balaiah,
Delivering the lecture on “various applications using RFT”



Dr. R.Md. Shaffi, HOD, MCA, SVEC
Delivering lecture



Mr. D. Sita rama Sharma, Delivery Manager, Virtusa, Hyderabad
delivering lecture on "Test Management using RQM"

60 members of faculty participated and were benefited in the programme.

1. They understood the tools like RFT, RQM for testing software applications, and their scope in better job prospects and career growth.
2. They learnt how to use the test automation tools for testing software applications.



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Department of Computer Science and Systems Engineering

Faculty Development Programme on “Software Testing Automation”

The Department of Computer Science and Systems Engineering organized FDP on “**Software Testing Automation**”, on 18 & 19, January 2013 under TEQIP – II.

The FDP focused on Quality of Testing in present day market and testing. Tools like QTP, load runner for testing software applications, Test Automation Tools, Recording and running a test, parameterization were discussed.

The faculty from various colleges across the nation attended the FDP.



Mr. Surendra Mohan, Juturu, Automation Architect, HCL Technologies delivering lecture on “Overview of Software Testing”



Mr. K. Kalyan Chakravathy, Sr. Quality Engineer, Trimble Information Technologies, Chennai demonstrating "Various Applications using QTP"



Mr. R.Md. Shaffi, HOD, MCA, SVEC discussing "Test Result Analysis in QTP"



Mr. D. Sita rama Sharma, QA Manager, Virtusa, Hyderabad delivering lecture on "Different Quality Management tools"

Forty faculty members from various colleges attended the FDP and gained knowledge on

1. Applications of QTP.
2. Test Result Analysis in QTP.
3. Different quality management tools.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

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Department of Computer Science and Systems Engineering

Staff Development Programme on

“LATEX and FOSS”

A Staff development program on **“LATEX and FOSS”** under TEQIP-II was organized by the Department of Computer Science and Systems Engineering is organized for Non-Teaching Staff in Sree Vidyanikethan Engineering College from 26th December to 29th December 2012.

Dr. D.V. Ramamurthy, Dean (R&D) and **Prof. C. Madhusudhana Rao**, Head of the Department of CSSE advocated the importance of open source tools and its scope.

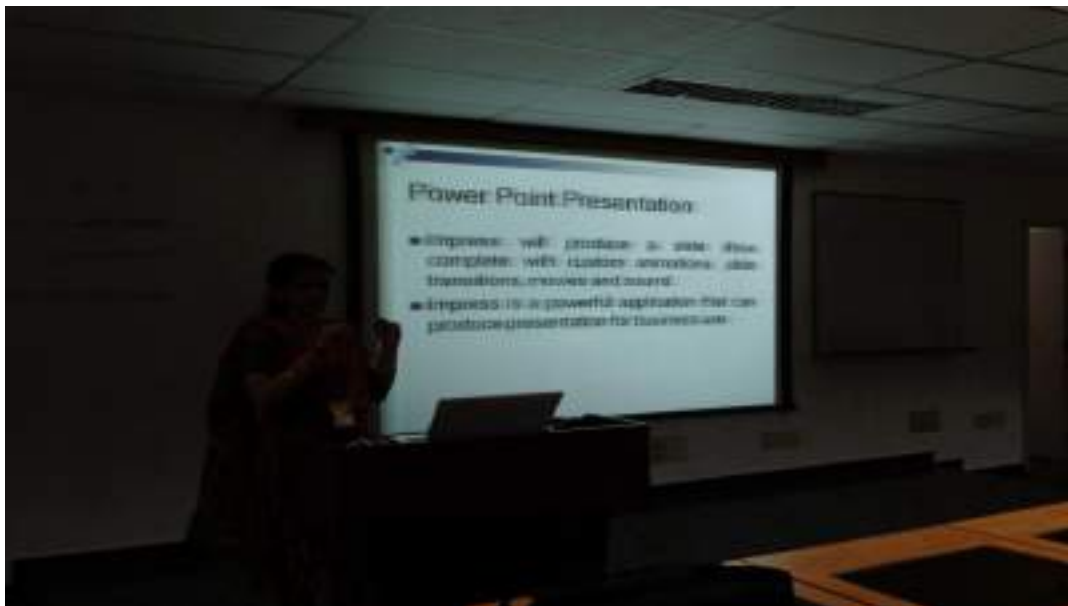


Dr. D.V. Ramamurthy, Dean (R&D) delivering the Lecture

Faculty members **Ms K. Lalitha**, Assistant Professor (SL), Department of CSSE, **Mr. A. Chandra**, Assistant Professor, Department of CSSE, **P. Dhanalakshmi**, Assistant Professor, Department of CSSE, **C. Sushama**, Assistant Professor, Department of CSSE acted as resource persons, they illustrated various applications of open office and Latex.



Prof. C. Madhusudhana Rao, Head of the Department of CSSE
Delivering the Lecture



Power Point Presentation on LATEX and FOSS



Mr. K. Kalyan Chakravarthy, Senior Quality Engineer, Trimble information Technologies India Pvt Ltd. was the Resource person. He demonstrated various applications of Latex.



Mr. K. Kalyan Chakravarthy, delivering the Lecture



Mr. A. Chandra, Assistant Professor Department of CSSE was interacting with the Students

Report on Two day Workshop on "MEMS Design Using CoventorWare"

The workshop started at 9:30 AM on 2nd April 2013 by conveying the workshop objective and introduction to resource persons Mr. Rakesh Ravindran Nair, Senior application engineer, Mr. Prasanna Kumar, Application Engineer and Mr. Muthuraman Iyer, Key Account Manager, from FTD Infocom Pvt. Ltd., Bangalore. 34 participants were registered for the program. Software materials and CoventorWare simulation software CDs with licenses were distributed to the registered participants.

During the first day i.e. 2nd April 2013, experts delivered the lecture on introduction to CoventorWare 2012 which is important for the participants who are new to this course. The same day they presented Creating process description and layout creation, Generating solid model and meshing. Finally hands on training was done on Discover CoventorWare 2012.

During the second day i.e on 3rd April 2013, they have given Class room exercises on Discover CoventorWare 2012 in all the sessions. Last day the program started at 9:00 AM and discussed the topics related to MEMS+3.0 product overview: new features, new physics, components what new devices and physics can you simulate with MEMS+3.0 and done some class room exercises. In the last session of day 3 presented Introduction to SEMulator3D and Class room exercise. Finally the participants were interacted with resource persons and cleared their problems which occur in their Research and Interdisciplinary fields.



Resource person interacting with faculty for demonstration of the tool



Participants practicing on the tool under resource persons guidance

Name of the Academic Program : Three Day Workshop on **“MEMS Design Using CoventorWare”**

Duration of the program(Dates): **2-4 April 2013**

Outcomes

- Expanded the knowledge base of the teacher in this domain for research
- Maximized Industrial connectivity
- Provided a common platform for the agglomeration of ideas of personnel from various walks of life for learning enrichment
- Created opportunities and exploit the available resources to benefit society

Report
on
One day Seminar on “Emerging Trends in VLSI”

The Seminar started at 9:30AM on 04 January 2013 after conveying the seminar objective and introduction to resource person Dr. N. S. Murthy, Professor of ECE, Dean (Planning & Development) NIT warangal.

85 participants registered for the program and handout materials are supplied to all participants.

During the First Session he delivered lecture on Overview and trends in VLSI design which is focused on VLSI scaling expected to continue for the next decade. The talk was continued on Power Management Issues in VLSI Architectures.

During the Second session he delivered lecture on VLSI DSP architectures with emphasis on DSPP and FPGAs. The talk was continued on ASICs which were customizable architecture to suit for any ideal algorithms. Finally participants interacted with the resource person and cleared their research hurdles in VLSI and Interdisciplinary fields.



Dr. N.S. Murthy detailing out recent trends in VLSI with industrial usage



Participants listening to the resource person

Name of the Academic Program : One Day Seminar on **"Emerging Trends in VLSI"**

Duration of the program(Dates): **04 January 2013**

Outcomes

- Improved Knowledge on emerging trends in VLSI
- Enhanced Research competence in VLSI
- Gained additional knowledge in interdisciplinary challenges related to VLSI.

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, A. Rangampet – 517 102

Department of Electronics & Communication Engineering

SVEC/ECE/57/2012-13

23 February 2013

Two day Workshop on

"MEMS Design Using COMSOL"

(7-8 February, 2013)

The real world is multiphysics in nature. Consider your mobile phone. The antenna receives electromagnetic waves, the touch screen or buttons are mechanical and electrical components, the battery involves chemical reactions and electrical current, and so on. It is a single device, but multiphysics.

COMSOL Multiphysics delivers the ideal tool to build simulations that accurately replicate the important characteristics of your designs. Its unparalleled ability to include all relevant physical effects that exist in the real world is known as Multiphysics.

Since it's a multiphysics world, the simulation tool must be multiphysics capable in order to correctly capture the important aspects of the design. The COMSOL Multiphysics approach starts with principles like transport phenomena, electromagnetic field theory and solid mechanics as the basic fibres of the software. Then, in an elegant and flexible user interface, you can weave these fibers together in a self-consistent way to solve your particular simulation needs.

"COMSOL Multiphysics facilitates to couple mechanisms in a very nice and simple way, allows to understand their combined effect. This is the true power of simulation."

Program Schedule:

Programme

7th Feb 2013

- 9.00 AM – 10.30 AM Inauguration and Keynote address
- 11.00 AM – 1.00 PM Introduction to COMSOL Multiphysics
- 2.15 PM – 5.00 PM Hands on Training on COMSOL Multiphysics

8th Feb 2013

Minicourses:

- 9.00 AM – 10.30 AM - Equation base Modeling - RF & Microwaves - MEMS
- 11.00AM –1.00 PM -MEMS Sensors Design using COMSOL Multiphysics
- 2.15 PM – 4.30 PM Hands on Training on, COMSOL Multiphysics
- 4.30 PM – 5.00 PM Valedictory Address

Resource Person's Details:

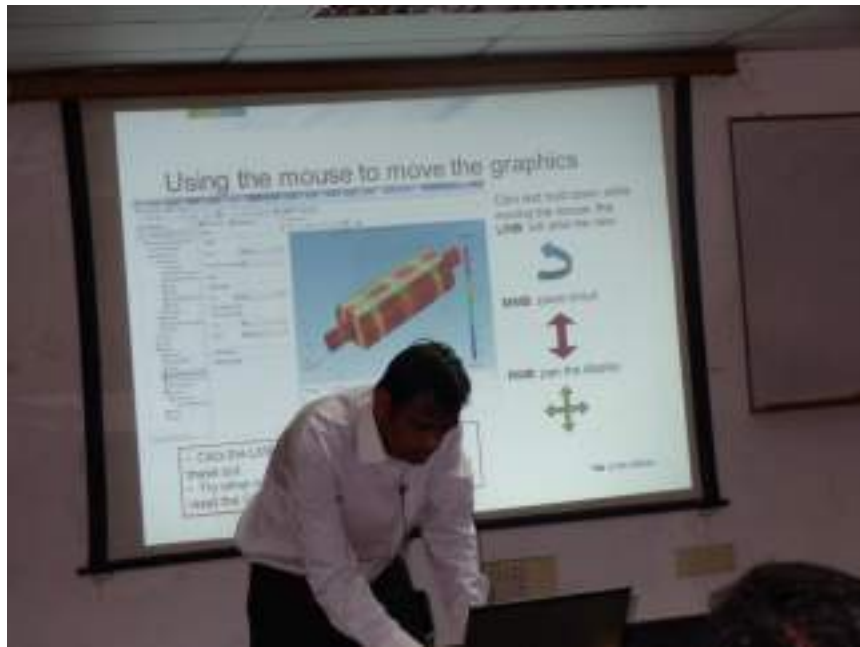
1. Mr. Mahesh Kadam, (ME from IISc Bangalore), Expert from COMSOL Multiphysics, Bangalore, India
2. Mr. Ashwin S. Mecheri, Expert from COMSOL Multiphysics, Bangalore, India



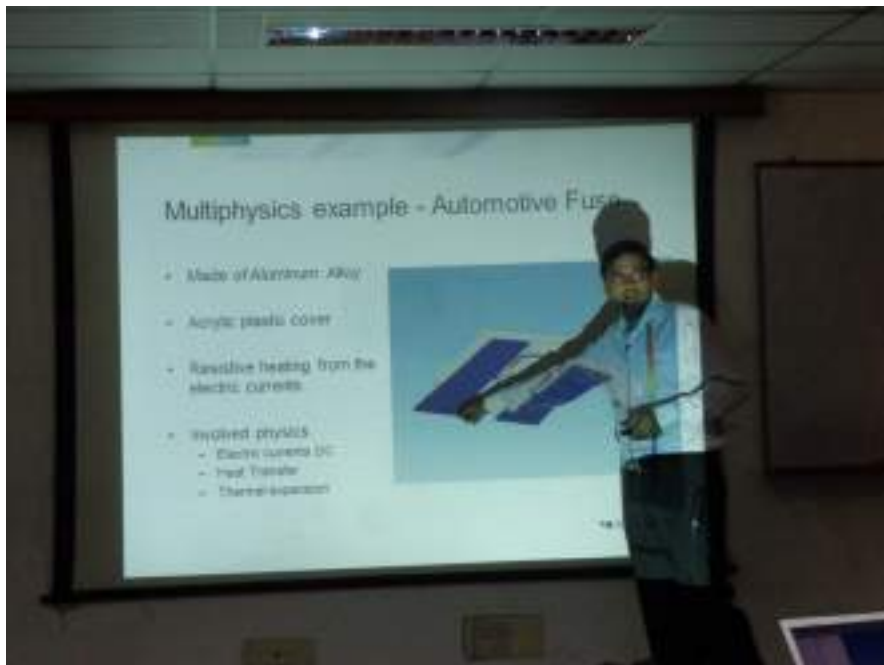
Registering the participants before commencing the programme



Introduction and objective of the programme by Prof. P. V. Ramana, HOD



Giving Presentation by resource person Mr. Mahesh Kadam, COMSOL



Giving Presentation by resource person Mr. Mahesh Kadam, COMSOL



Discussing doubts during the programme with participants

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering, SVEC, organized a National conference on “**Enhancements in Power Electronics and power Systems**”- (NCEPEPS-2013) under Technical Education Quality Improvement Program-II.

The aim of the conference is to bring together both researchers and PG students to meet new colleagues, collect new ideas and establish new cooperation between research groups. This conference provides a platform for researchers from academia and students to present their work and exchange ideas, information, techniques and applications in the field of Power electronics and power systems.

Authors presented papers in various fields of electrical engineering like multilevel inverters, smart grid, renewable energy, custom power devices and FACTS controllers etc., About 52 papers are received.35 papers are presented during the conference.

Prof. T, Gopala Rao garu, Special officer inaugurated the program and gave his valuable suggestions. **Dr. Bishnu.P.Muni**, General Manager, BHEL (R&D) is the Chief guest, Dr Muni enlightened the recent advances in the field of power electronics in his keynote address. **Dr.P.C.Krishnamachary, Principal, Dr.D.V.S.Bhagavanulu, Director, Dr.P. Ramana Reddy** (Dean, PG courses) and **Dr.T.Devaraju**, Convener of the conference welcomed the participants.

Dr.V C Veera Reddy and **Dr.D.Damodar Reddy** are the external Judges. Prof.P.Umapathi Reddy and Prof.M.S.Sujatha are the internal judges for the conference.

Mr. P.Ramesh, Asst Professor, presented the vote of thanks.







SCHEDULE OF NCEPEPS-2013

VENUE: Dasari Auditorium

Inauguration

(9:00-10:00 AM)

Keynote Address-I

Dr.B.P.Muni,GM,BHEL (R&D)

(10:30AM-12:00PM)

Keynote Address-II

Dr.B.P.Muni,GM,BHEL (R&D)

(12:15PM-1:45PM)

DATE: 26.03.2012

SESSION- I: (2:00 - 3:45PM)

TITLE: POWER SYSTEMS

VENUE: E-CLASS ROOM

S.No	Title of the Paper	Authors
1.	TRANSMISSION NETWORK COST ALLOCATION BY USING IMPEDANCE METHOD	Y.N VIJAY KUMAR
2.	VOLTAGE-CONTROL BASED PMBLDCM BY USING CUK CONVERTER WITH PFC	K.SANTOSH KUMAR REDDY & K.SUDARSHAN REDDY
3.	A NOVEL DIRECT POWERCONTROL METHOD OF UPFC BY USING MATRIX CONVERTER	GOWTHAM CHENDRA & T.VARA PRASAD
4.	MODIFIED MULTILEVEL INVERTER WITH REDUCED NUMBER OF SWITCHES	A. CHANDRAKALA
5.	LOSS MINIMIZATION OF A POWER SYSTEM BY OPTIMAL PLACEMENT OF THYRISTOR CONTROLLED SERIES CAPACITOR	GALAM RAVI
6.	A GENERALIZED CASCADED MULTILEVEL INVERTER USING SERIES CONNECTION OF SUBMULTILEVEL INVERTERS	A.REDDI PRASANNA & P.CHANDRA SEKHAR

7.	CAPACITOR VOLTAGE BALANCING OF FLYING CAPACITOR MULTILEVEL CONVERTERS BY SPACE VECTOR PWM	K VIJAYA LAKSHMI & G.JAYAKRISHNA
8.	ENHANCEMENT OF MICRO TURBINE-GENERATOR OUTPUT VOLTAGE QUALITY THROUGH APPLICATION OF MATRIX CONVERTER INTERFACE	L.SURESH
9.	DUAL AXIS SOLAR TRACKING USING LIGHT SENSORS	B. MEGHANATH REDDY
SESSION- II: (4:00 - 5:45PM)		
10.	AN INTEGRATED NINE SWITCH POWER CONDITIONER FOR POWER QUALITY ENHANCEMENT AND VOLTAGE SAG MITIGATION	PUSHPA N & G.JAYAKRISHNA
11.	CONTROL OF VOLTAGE SOURCE INVERTER USING SPACE VECTOR PULSE WIDTH MODULATION METHOD	N.SANDEEP REDDY
12.	POWER QUALITY IMPROVEMENT IN DISTRIBUTION SIDE HAVING BALANCED & UNBALANCED LOADS	Y.ANUSHA
13.	COMBINED ECONOMIC LOAD AND EMISSION DISPATCH EVALUTION USING BAT ALGORITHM	RAKESH.V
14.	MAXIMUM LOSS REDUCTION THROUGH OPTIMAL PLACEMENT OF UNIFIED POWER-FLOW CONTROLLER USING FIREFLY ALGORITHM	M.RAMANAIAH
15.	WIND FARM TO WEAK-GRID CONNECTION BY USING UPQC CUSTOM POWER DEVICE	S. LOPAMUDRA
16.	MITIGATION OF VOLTAGE SAG AND SWELL USING DISTRIBUTED POWER FLOW CONTROLLER	B.RUPENDRA NAIK
17.	POSITIONING OF SVC AND STATCOM IN A SERIES COMPENSATED LONG TRANSMISSION LINE	HEMANTH KUMAR.T

SCHEDULE OF NCEPEPS-2013

SREE VIDYANIKETHAN ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
NCEPEPS -2013
SESSION WISE DETAILS

DATE: 27.03.2012

SESSION - I: (9AM-10:30AM)

TITLE: POWER ELECTRONICS

VENUE: E-CLASS ROOM

S.No	Title of the Paper	Authors
1.	DESIGN AND SIMULATION OF BUCK PFC	KARTHEEK VANKADARA & R.RAMA PRASAD
2.	INVESTIGATION OF WAVELET BASED DG FOR POWER QUALITY IMPROVEMENT	D.SREENADH REDDY
3.	POWER QUALITY ANALYSIS IN REAL-TIME ENVIRONMENT USING DSP TECHNIQUES	SRIVIDYA T
4.	OPTIMAL ALLOCATION OF DISTRIBUTED GENERATION IN DISTRIBUTION SYSTEM FOR LOSS REDUCTION	R. MAHESWAR REDDY
5.	WAVELET AND ANN BASED DETECTION OF INRUSH AND INTERNAL FAULTS IN POWER TRANSFORMERS	K. VIKRAMYADAV
6.	A STATCOM-CONTROL SCHEME FOR GRID CONNECTED WIND ENERGY SYSTEM FOR POWER QUALITY IMPROVEMENT	P.CHANDRA SEKHARA, P.RAJA SEKHAR & G.KRISHNA DEEKSHIT
7.	WIDE SPEED RANGE ESTIMATION USING FUZZY CONTROLLER FOR SENSOR LESS INDUCTION MOTOR DRIVES	MR.SK.GHOUSE MODIN, MR.Y.NAGA RAJA, MR.S.NARESH SIVA KANTH & MR.D.PRASANTH
8.	STUDIES ON ENHANCEMENT OF TWO AREA POWER SYSTEM DYNAMICS THROUGH SERIES CONNECTED FACTS DEVICES	N.M.G KUMAR
9.	COMPARATIVE STUDY OF MAXIMUM POWER POINT TRACKING ALGORITHMS FOR PHOTOVOLTAIC SYSTEMS	MR.Y.NAGA RAJA, MR.SK.GHOUSE MODIN, MR. N.KAUSHIK & MR. T. RAJA KULLAYAPPA

SESSION - II: (10:30AM-12:30 PM)		
10.	A NEW FIVE LEVEL H-BRIDGE INVERTER TOPOLOGY	K.MURALIKUMAR, M.LOKANADHAM & P.PAVANKUMAR
11.	OVER CURRENT AND OVER VOLTAGE PROTECTION OF POWER TRANSFORMER BY USING MICROCONTROLLER – BASED RELAY	M.DRUGA KUMAR & A.SHARAN KUMAR
12.	POWER MANAGEMENT AND POWER FLOW CONTROL IN UTILITY CONNECTED MICROGRID BY USING IGBT SWITCH	C.UMAMAHESWARA REDDY & G.VIJAYAKUMAR
13.	IMPLEMENTATION OF DYNAMIC VOLTAGE RESTORER FOR EMERGENCY CONTROL IN DISTRIBUTION SYSTEMS	K.VINOD KUMAR
14.	ENHANCEMENT OF POWER TRANSFER CAPABILITY AND POWER QUALITY IMPROVEMENT USING SSSC	B.MALLIKARJUNA REDDY & B.SUBBA REDDY
15.	QUASI-TWO-LEVEL AND THREE-LEVEL OPERATION OF A DIODE-CLAMPED MULTILEVEL INVERTER USING SPACE VECTOR MODULATION	K.RAJESH & K.VIJAYA BHASKAR
16.	THE ISLANDING DETECTION IN A DISTRIBUTION SYSTEM INTERFACED WITH DISTRIBUTED GENERATION USING FUZZY RULE-BASE	M. ABHINAY KRISHNA & T. MADHURANTHAKA
17.	MITIGATION OF HARMONICS AND POWER QUALITY IMPROVEMENT FOR A GRID CONNECTED WIND ENERGY SYSTEM USING UPFC	SK.FARIZKHAN & S.MUNI SEKHAR
18.	FAILURE ANALYSIS OF SHUNT CONVERTER IN DISTRIBUTED POWER FLOW CONTROLLER	P. RAMESH

Best papers in the conference-NCEPEPS-2013		
1	COMPARATIVE STUDY OF MAXIMUM POWER POINT TRACKING ALGORITHMS FOR PHOTOVOLTAIC SYSTEMS	MR.Y.NAGA RAJA, MR.SK.GHOUSE MODIN, MR. N.KAUSHIK & MR. T. RAJA KULLAYAPPA
2	DUAL AXIS SOLAR TRACKING USING LIGHT SENSORS	B. MEGHANATH REDDY
3	THE ISLANDING DETECTION IN A DISTRIBUTION SYSTEM INTERFACED WITH DISTRIBUTED GENERATION USING FUZZY RULE-BASE	M. ABHINAY KRISHNA & T. MADHURANTHAKA

DR.T.DEVARAJU
COVENER-NCEPEPS-2013

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A.Rangampet – 517 102

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering, SVEC, organized a National level workshop on **“Emerging technologies in Electrical Engineering”** under Technical Education Quality Improvement Program-II, to provide the opportunity for the faculty, researcher scholars and PG students to know the Emerging Technologies in Electrical Engineering. The workshop will focus research challenges and latest developments in the emerging field of power electronic applications in power systems like multilevel inverters, custom power devices and FACTS controllers. About 85 members from various engineering colleges, Faculty and PG students of Department of EEE have participated in the programme.

Prof. T,Gopla Rao garu, Special officer inaugurated the program and gave his valuable suggestions. **Dr. D.V.S.S. Siva Sharma**, Professor, Dept. of EEE NIT, Warangal, is the Chief guest, enlightened the recent advances in the field of Electrical Engineering.

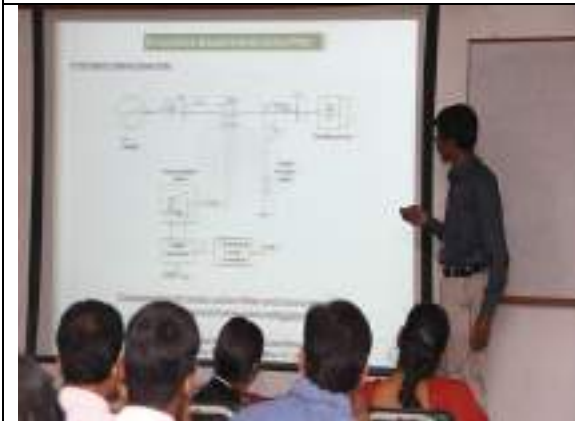
Dr. P.C Krishnamachary, Principal and **Prof P. Ramana Reddy** (Dean, PG courses) and **Dr.T.Devaraju**, Convener of the workshop welcomed the participants.

Dr.DVSS Siva Sharma, Dr.K.Shiva Kumar, Dr.C.Venkatesh and **Dr.T.Devaraju** are the resource persons for the workshop.

Resource person	Topic	Time
Day-1 Saturday (22-12-2012)		
Dr. D.V.S.S. Siva Sharma Professor, Department of EEE NIT Warangal	Power Quality Issues and mitigation	11:00 a.m to 11:45a.m
	SESSION – II	
	Wavelet applications in PQ Analysis and Transformers	12:00 Noon to 1:30p.m
Dr. K. Shiva Kumar, Asst Professor, Dept of EEE IIT, Hyderabad	Multilevel Inverters and its applications	2:30 p.m-5:00p.m
Day-2 Sunday (23-12-2012)		
SESSION – I		
Dr. C. Venkatesh Professor & Head, SREC ,Warangal	Harmonic reduction techniques	10:00 a.m to 12:00 Noon
SESSION – II		
Dr. T. Devaraju Head , EEE SVEC	Power system Stability using FACTS Controllers.	12:15 Noon to 1:00 p.m
SESSION – III		
Dr. C. Venkatesh Professor & Head, SREC , Warangal	PSCAD and Its applications in Electrical Engineering	2:00 p. m to 3:30 p. m

Mr. P.Ramesh, Asst Professor presented the vote of thanks.







Compiled By
Dr.T.Devaraju,HOD,EEE

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A.Rangampet – 517 102

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering , SVEC, conducted a one day National level workshop on “**Hands on training in Electrical engineering labs**” under Technical Education Quality Improvement Program-II, to develop the Technical Skills and Basic Foundation in Electrical Engineering Labs to the technicians working in the Electrical Engineering labs in various Engineering colleges with the objective of enhancing the capability of Technicians for better interaction and support to both UG and PG students. About 50 Technicians from various engineering colleges have participated in the programme.

Prof. T,Gopla Rao garu, Special officer inaugurated the program and gave his valuable suggestions. **Sri C. Subramanyam Reddy DE** (AP Transco, Tirupathi) addressed the gathering highlighting the importance of Technical staff and shared some of his experiences at AP Transco and the valuable contribution made by their technical staff. **Dr. P.C Krishnamachary**, Principal and **Prof P. Ramana Reddy**, Dean (PG courses) and **Dr. T. Devaraju**, HOD, EEE and Convener of the workshop welcomed the participants.

Resource person	Topic
Mr.M.Manohar Associate Professor	Electrical machines lab (DC and AC Machines)
Mr.P.Ramesh Asst Professor	Power Electronics Lab
Mr.N.MG. Kumar Associate Professor	Power systems Relay lab
Mr.N. Sreekanth Asst Professor	Electrical measurements lab
Prof. M.S .Sujatha and A.Muni sankar Asst Professor, SVEC	MATLAB/PSPICE related Experiments
Miss.W V Jahnavi Asst Professor, SVEC	Electrical Circuits lab

Mr. N.M.G.Kumar, Coordinator presented the vote of thanks.



DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

REPORT

The Department of EIE conducted a Three Day Workshop for Faculty on “**PLC & SCADA**” during **26-28 June 2013**.

The main objective was to provide useful insights of the use of PLC & SCADA in Automation. Hands on experience on PLC & SCADA is also given.

Today's world revolves around high technology & most companies have invested substantially in Automated Plant. Most manufacturing companies are looking for competent engineers and researchers with basic aptitude towards automation and ability to design and work on varied brands of PLCs, Drives, MMI and SCADA.

Head of the Department Prof.N. Gireesh introduced the resource persons:

1. **Mr. Y. SREEDHAR**, Senior Automation Engineer, Prolific Systems and Technologies, Hyderabad.
2. **Mr. R. RANJITH**, Automation Engineer, Prolific Systems and Technologies, Hyderabad.
3. **Mr. G. V. SUNIL KUMAR**, Associate Professor, SVEC, Tirupati.

A total 29 of faculty members participated in the programme.

The following topics were covered:

- General Introduction to Allen Bradley PLC & Configuration
- Programming in PLC
- Hands on training with PLC programming
- Introduction to SCADA
- Configuration & Connectivity with PC
- Usage & Program with SCADA with various Internal resources
- Hands on training with SCADA programming



Delivering a lecture by the Resource Person
Mr. Y. SREEDHAR, Senior Automation Engineer, Prolific Systems and Technologies, Hyderabad.



A section of the participants



Delivering a lecture by the Resource Person
Mr. R. RANJITH, Automation Engineer, Prolific Systems and Technologies, Hyderabad.



Conducting hands on experience on PLC & SCADA by the Resource Person from Prolific Systems & Technologies, Hyderabad



Distribution of certificates to the participants by the Resource Person from Prolific Systems & Technologies, Hyderabad



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, Tirupati 517102.

Department of Electronics and Instrumentation Engineering

REPORT

The Department of EIE organized a National Level Faculty Development Programme on **Biomedical Signal Processing** during **21-22 June 2013**.

The main objective was to provide knowledge on mathematical analysis of biomedical signals. Computer analysis of these signals could provide strength to physicians for proper diagnosis. Also, it focuses on latest developments in the field of biomedical instrumentation.

The programme was inaugurated by the Chief Guest **Dr. M. Ramasubba Reddy**, Professor, Indian Institute of Technology Madras, Chennai. Guest of Honour **Dr. P. Arulmozhivarman**, VIT University, Vellore, **Dr. P.C. Krishnamachary**, Principal, SVEC, **Dr. V. Ramamurthy**, Dean(R&D), SVEC, and **Prof. N. Gireesh**, Head, Dept. of EIE, SVEC graced the occasion.

The following experts were the resource persons:

- 1. Dr. Dr. M. Ramasubba Reddy**, IITM, Chennai.
- 2. Dr. P. Arulmozhivarman**, VIT University, Vellore.
- 3. Dr. K. Ashok Reddy**, KITS, Warangal.
- 4. Dr. S. Poornachandra**, Dean, SNSE, Coimbatore

A total of 67 faculty members were benefited by attending this programme.

The Outcomes of the program:

1. Acquired knowledge on signal processing for biomedical signals.
2. Faculty may be able to carry out the research in the field of biomedical instrumentation.
3. Awareness on latest developments on biomedical instrumentation.

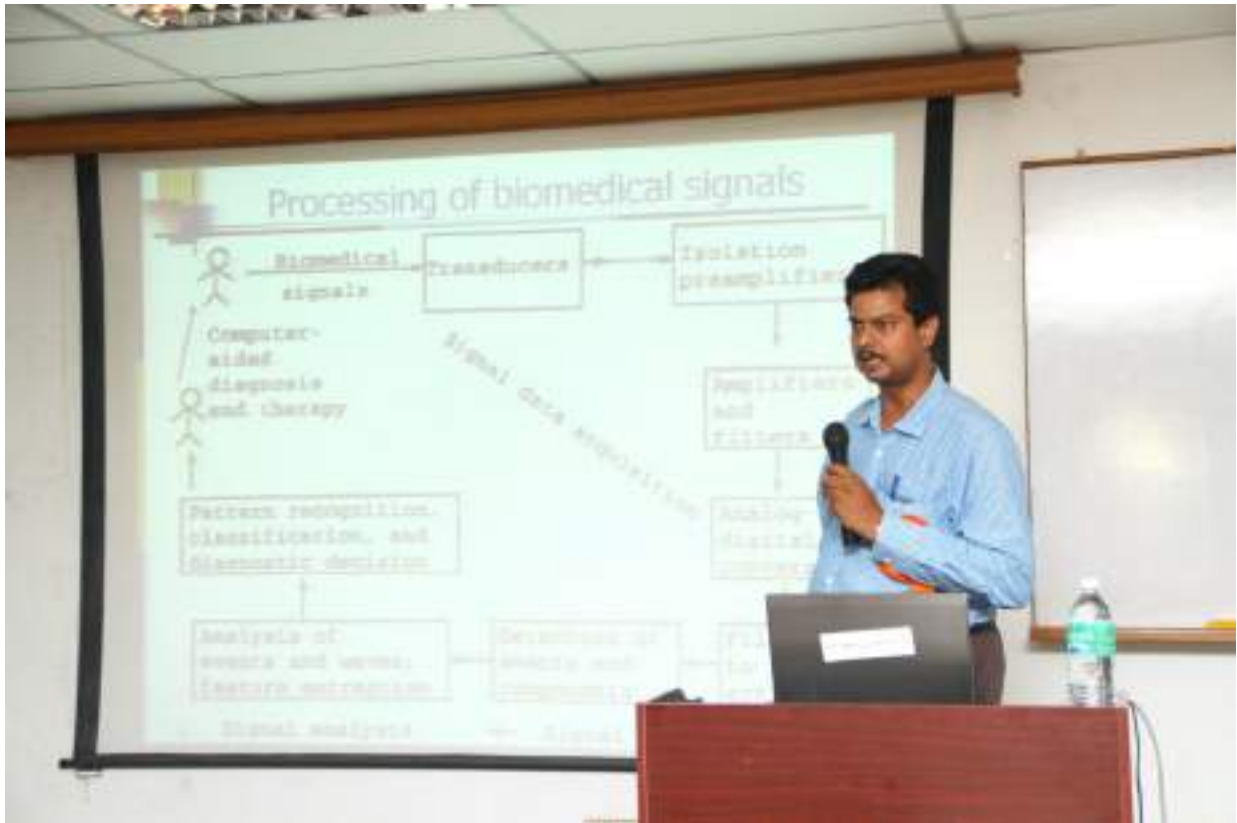
Convener



Addressing the gathering by Dr. M. Ramasubba Reddy



Dr. M. Ramasubba Reddy delivering a lecture



Dr. P. Arulmozhivarman delivering a lecture



Cross section of participants



Dr. K. Ashok Reddy delivering a lecture



Dr. S. Poornachandra delivering a lecture



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, Tirupati - 517102.

Department of Electronics and Instrumentation Engineering

International Seminar on Advances Modeling of Industrial Processes and Optimal Control (14-15 March, 2013)

Under **Technical Education Quality Improvement Programme (TEQIP-II)**

The International Seminar on Advanced Modeling of Industrial Processes and Optimal Control was inaugurated on 14.03.2013 by the Chief Guest Prof. Peter Fritzon, Linkoping University, Sweden. Prof. T. Gopala Rao, Special Officer, SVET Dr. P. C. Krishnamachary, Principal, Dr. D.V.S. Bhagavanulu, Prof. N.Gireesh, Head of the Department, Dr. B. Polaiiah, Convener, Deans and other Head of the Departments were also present in the inaugural function.

Prof. Peter Fritzon focuses on the importance on OpenModelica software used for the modeling of physical systems. This software can be used in simulating Physical, Chemical, Electrical, Electronics, Mechanical, Thermal Systems, etc. OpenModelica is completely free software which can be downloaded from www.openmodelica.org.



Prof. Peter Fritzon, Linkoping University, Sweden addressing the gathering

Convener



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, Tirupati - 517102.

Department of Electronics and Instrumentation Engineering

Faculty Development Programme on Soft Computing: Advances and Applications

(21-22, December 2012)

Under

Technical Education Quality Improvement Programme (TEQIP-II)

The Department of EConE& Department of EIE, organized a Two day faculty development program on **"Soft Computing: Advances& Applications"** under Technical Education Quality Improvement Program (TEQIP-II), during 21-22 December 2012. **Prof. T. Tyagarajan**, Head, Instrumentation Engineering, MIT, Chennai and Dr.G.V.Maruteswar, Professor, Department of EEE, SVU, inaugurated the program. About 70 faculty members from SVEC and Various colleges participated in this program. Prof.V.S.S.Kumar, Principal, Osmania University college of Engineering, has delivered a lecture on "Different perspectives of neural networks and fuzzy logic". Prof.T.Tyagarajan delivered lectures on Neural networks, Genetic algorithms and Neuro fuzzy systems. Dr.G.V.Maruteswar delivered lectures on Fuzzy logic and applications of fuzzy control. The outcomes of the program are as follows:

- 1) Acquired superior knowledge on neural networks and fuzzy logic.
- 2) Cheering the faculty to pursue research in the field of neural networks, fuzzy logic & Genetic Algorithms.
- 3) Awareness on various applications of soft computing techniques in Instrumentation and Control systems.



Delivering a lecture by the Resource Person

Dr.T.Thyagarajan Professor, Dept. of Instrumentation Engineering, Director, University Library



Delivering a lecture by the Resource Person
Dr G.V.Marutheswar Assoc.Professor, Dept of EEE ,S.V.U. College of Engineering, Tirupati.



Cross section of the participants



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517102

A Report on

A Two Day National Workshop on

Library Automation

Sree Vidyanikethan Engineering College organised a two day national workshop on Library Automation on 19th and 20th January 2013. The Objective of the workshop was to provide a platform for sharing practical knowledge and expertise among librarians, practitioners, knowledge managers and IT professionals.

Prof.K.Padmini, Dr. Avineni Kishore, Dr. M.R.Murali Prasad, and Prof. V. Pulla Reddy, were the resource persons for the workshop . The two day workshop was filled with interactive knowledge sharing sessions on topics like ‘Service with spirit: Need of the hour’ , ‘Recent Advances in Library Automation’, ‘Cataloguing and Circulation’ and ‘Planning for Library Automation’ by Prof.K.Padmini, Dr. Avineni Kishore, Dr. M.R.Murali Prasad and Prof. V. Pulla Reddy respectively.

Practically useful skills were also imparted In sessions of Mr. Hemanth Kumar and Dr.M.R. Murali Prasad with sessions on ‘SOUL installation’, ‘Digital Library Software’s’ and ‘Planning for Library Automation’.

The workshop was helpful in creating awareness of Library Automation and its significance in current scenario. The workshop addressed all possible hurdles including technical problems while retrieving the data as per subject wise, branch wise, author wise, title wise etc. All the 110 participants found the workshop highly beneficial.



“TECHNIQUES IN TEACHING ENGLISH”

(8th & 9th March, 2013)

The department of General Engineering Basic Sciences and Humanities (GEBH), SVEC, conducted a Two – Day National Level Faculty Development Programme on **“TECHNIQUES IN TEACHING ENGLISH”**, under Technical Education Quality Improvement Program – II.

Prof. S. Venkateswaran, Professor and Head, RIESI, Bangalore, inaugurated the programme. In his inaugural lecture as the resource person, he delivered a talk on “Developing Communicative Competence – Alternative Strategies” and later delivered a talk on “Language Skills”. About 60 faculty members of English from different Engineering Colleges across the state participated in this programme.

Prof. V. Prakasam, EFLU, Hyderabad, delivered a talk on “Teaching effectively, with Special Reference to English at an Engineering College”. **Prof. P.Hari Padma Rani**, SPMVV, Tirupati, delivered a talk on “Teaching English through the Lexical Approach”. **Prof. S.P. Dhanavel**, Anna University, Chennai delivered a talk on “Innovative methods in ELT”. **Prof. K.Elango**, Anna University, Chennai, delivered a talk on “Learner Centric Approach for Maximizing Learning Potential”. **Prof. M.A.K.Sukumar**, Rector, SVU, Tirupati, gave a valedictory lecture on “Language through literature a panoramic view”.

Dr. I.Sudarshan Kumar, Chief Operating Officer, Dr. D.V.S.Bhagavanulu, Director, SVEC, Sri. B.Ravi Sekhar, Director, Finance and Administration, Dr. P.C. Krishnamachary, Principal, Dr. A.V.M.Prasad, HOD, Department of GEBH, Deans, HODs and faculty members participated in the inaugural and valedictory function. Dr. M. Ravichand, Convener and Ms. S.Pushpa Latha, Organizing Secretary, Ms. G.M.Madhavi,, Mr. G.Reddisekhar Reddy, Co-ordinators, welcomed the resource persons and participants. Ms. G.Hannah proposed the vote of thanks.



*Sri. B.Ravi Sekhar, Director, Finance and Administration, SVET
Lightning the lamp*



Dr. P.C. Krishnamachary, Principal, SVEC addressing the gathering



Dr. I. Sudarshan Kumar, Chief Operating Officer, SVET addressing the gathering



Prof. S. Venkateswaran, Professor and Head, RIESI, Bangalore delivering the inaugural speech



Prof. V. Prakasam, EFLU, Hyderabad delivering the talk on "Techniques in Teaching in English"



Prof. P. Hari Padma Rani, SPMVV, Tirupati delivering the talk on "Techniques in Teaching in English"



Prof. S.P. Dhanavel, Anna University, Chennai delivered a talk on "Innovative methods in ELT"



Prof. K.Elango, Anna University, Chennai, delivered a talk on "Learner Centric Approach for Maximizing Learning Potential"



Prof. M.A.K. Sukumar, Rector, SVU, Tirupati, gave a valedictory lecture on "Language through literature a panoramic view"

A Two-Day Faculty Development Programme On “Empowering Faculty on Life Skills”.

A Two-day Faculty development Programme on “Empowering Faculty on Life Skills” was inaugurated by Dr. S. Mohan Raj, Professor, Department of Training and Development from The English and Foreign Languages University, Hyderabad on 05/04/2013 at 9.00 A.M. All the resource persons have given the speeches on the given topic of the Faculty Development Programme so as to empower the faculty in turn to enhance the set skills for the students that benefit every phase of his life. A total of 31 external participants and 75 internal participants registered for the Programme.

In the morning session of the first day (05/04/2013), Mrs. Pushpa Ramakrishna and Mr. Gurunatha Naidu delivered the lectures on The Use of Information Communication Technology (ICT) for Teacher Development and What Youngsters Expect? & What Corporates Expect? Both of them gave invaluable information to the faculty to empower the students. In the afternoon session, Mr. S.Mohan Raj and Mrs. Jaya Sree Mohan Raj gave the lecture on Written Communication and Presentation Skills. The inputs that they gave in the lecture to the faculty were commendable.

On the final day (06/04/2013) of the programme Mr. S.Mohan Raj and Mrs. Jaya Sree Mohan Raj have completed their respective topics with extolling from the faculty. In the afternoon, Mrs. Pushpa Ramakrishna and Mr. Gurunatha Naidu dealt with the importance of soft skills and Behavioral Aspects which have become the core aspects for the faculty in the day to day working environment of the work culture.

OUTCOMES:

1. The resource persons from different arenas in soft skills delivered the lecture on the expertise which was much useful for the enhancement and concreteness of knowledge of the faculty in their respective domains.
2. The FDP has created in faculty, an ability to think critically and achieve solutions in communication problems among the students.
3. The interactive sessions of the participants with experts who have attended the Programme made them to enhance their knowledge in advanced communication skills.
4. The FDP has given a chance for the faculty to think and work on the issues rather than on personalities in the work environment.



On the inaugural function The resource persons, Dr.AVM Prasad HOD and AK Damodaram Coordinator TEQIP - II are gracing the dias





Prof C.Pushpa Ramakrishna giving a lecture on ICT



Dr.PCKrishnamachari, Principal, SVEC, addressing the valedictory function



The distribution of certificates to the participants by Dr. AVM Prasad HOD GEBH



Prof. N. Grunatha Naidu, giving a lecture on Behavioral Aspects.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102

Department of Information Technology

A Two Day Faculty Development Programme
on
“Research Document Preparation using LATEX”
18-19 January, 2013

The Department of IT organized A Two Day FDP on ***“Research Document Preparation using LATEX”***, during 18th & 19th, January 2013 under TEQIP – II. The FDP program received an overwhelming response with more than 70 participants from various institutions approved by AICTE.

This FDP mainly focused on Introduction to Latex, Math using Latex, Document Structure, Classes & Packages, Hands on Training, Presentation using Latex, IEEE Technical paper creation/publishing, Thesis preparation using Latex.



Dr. P. C. Krishnamachary, Principal and other delegates lightening the lamp @ FDP

FDP was inaugurated on 18th January, 2013 by Dr. P. C. Krishnamachary, Principal, SVEC, along with Dr. D.V.S. Bhagvanulu, Director, SVEC, Dr. Krishna Chandramouli, VIT University, Vellore and other delegates.

On this Occasion, Dr. V. V. Ramaprasad, HoD, Dept. of IT, SVEC welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this faculty development program.

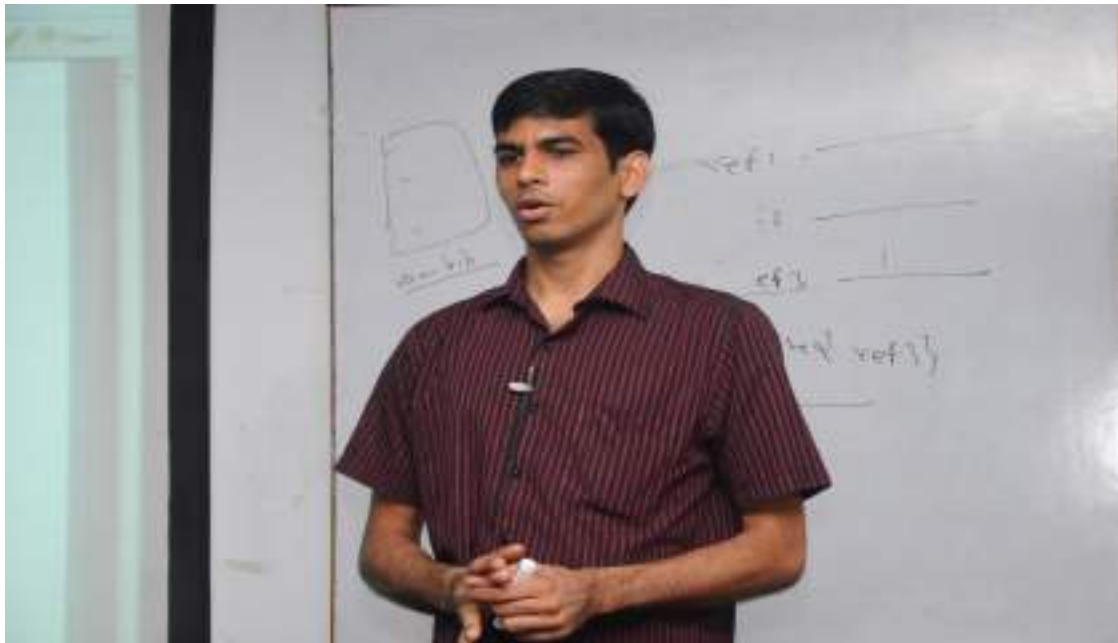
At the end, the inaugural session was concluded with a vote of thanks given by Dr. K. Ramani, Professor, Dept. of IT, SVEC.

This FDP is aimed at giving hands on experience on Latex which runs under Windows environment. No prior knowledge of Latex is assumed. Latex is a software system and extremely powerful mark-up language for creating structured documents. It is particularly well suited for documents containing mathematical formulae and even complex mathematical equations, symbols, in a document. Research Scholars, who need to write articles, technical papers and theses with a large number of mathematical equations can use Latex. Latex is a Free and Open Source Software that facilitates creating and publishing of documents and presentations in Portable Documents Formats.

Day-I (January 18, 2013)

Session-1:

In Session-1, Mr. Ramanuj Chouksey, Assistant Professor in VIT University, Vellore has discussed on the topics like Introduction to Latex, Creating first document, Formatting Words, Lines and Paragraphs, Document class, and Parts of a document.



Mr. Ramanuj Chouksey, Assistant Professor in VIT University, Vellore Delivering a Session on Latex

Session-2:

Dr. Krishna Chandramouli, VIT University, Vellore, demonstrated lecture on the topics "Inserting Image, Typing Math Formulas and Typesetting Theorems, Writing Algorithm and Setting

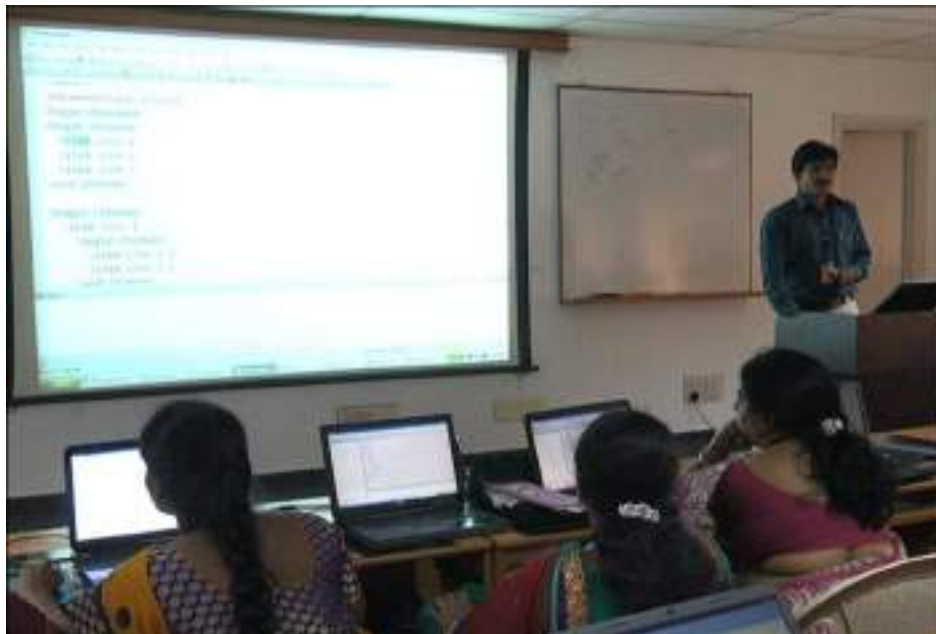
Margins " from 11.15 AM – 01.15 PM. The participants interacted with resource person and clarified their doubts regarding the report formats.



Dr. Krishna Chandramouli, VIT University, Vellore, demonstrated lecture on Latex

Session 3:

Mr. K. K. Baseer, Assistant Professor, Dept. of IT, SVEC, Tirupathi, delivered lecture on the topics "Creating Lists, Ordered Lists, Generating Table and Table Environment" from 2.15 PM to 3.30 PM. The participants interacted with resource person and clarified their doubts regarding different table formats.



Mr. K. K. Baseer, Assistant Professor, SVEC, Tirupathi demonstrated lecture @ FDP

Session-4:

Mr. Ramanuj Chouksey VIT University, Vellore, Continued his sessions on "Creating a Bibliography, Table of Contents, Generating an index, Cross References and Footnotes" from 3:45-4:45 pm.

Day 2: (January 19, 2013)

Session-1:

Mr. Ramanuj Chouksey VIT University, Vellore delivered lecture on the topics "How to write the IEEE Paper using Latex" from 9.00 AM to 11.00 AM



Mr. Ramanuj Chouksey delivering the session on writing paper format using Latex @ FDP

Session-2:

Dr. Krishna Chandramouli VIT University, Vellore has delivered his sessions on "Developing Large Documents -Thesis" from 11.15am – 12.45pm.



Dr. Krishna Chandramouli VIT University, Vellore, demonstrated lecture on making doc in Latex

Session-3 and 4:

In the afternoon session from 2.00 PM to 3.30 PM **Dr. Krishna Chandramouli** VIT University, Vellore had his sessions on "Making Presentation using Latex".

Later from 3.30pm - 4.3pm **Dr. Krishna Chandramouli** VIT University, Vellore & **Mr. Ramanuj Chouksey**, VIT University, Vellore had their sessions in demonstrating "Panel Discussion on Latex for Scientific Writing" with a practical section.



Dr. Krishna Chandramouli and Mr. Ramanuj Chouksey, VIT University, Vellore, demonstrating Practical sessions using Latex.



Participants of Two Day FDP on "Research Document Preparation using LATEX"



Dr. D.V.S. Bhagvanulu, Director, SVEC, distributing the certificates to participants

“Virtualization and Cloud Computing”

(19.10.2012)

The department of Information Technology, SVEC, conducted a one day seminar on **“Virtualization and Cloud Computing”** under Technical Education Quality Improvement Program-II. **Prof. K. Chandrasekaran**, Professor of CSE, NIT, Surathkal inaugurated the program. In his inaugural lecture as the chief resource person, he delivered a talk on **“Cloud Computing, Virtualization, Service Oriented Architecture, Sky and Planet Computing”**. About 400 students of B.Tech., M.Tech., and MCA from across the state and about 50 faculty members participated in this event. Dr. M. Krishna, Senior Software Engineer, Mphasis, Hyderabad delivered a talk on “MS-Azure Cloud computing platform”. Mr.M. Satish Kumar, Senior Software Engineer, Intel Corporation, Bangalore, discussed about “Virtualization through VMWare and Hyper-V”. Mr.A. Srinivasulu, Associate Professor, IT Department, SVEC demonstrated the tool “SalesForce.com”.

Dr. V. V. Rama Prasad, Vice Principal and Convener welcomed the participants. Prof. T. Gopala Rao, S.O., Prof. Bhagavanulu, Director, Dr. P.C. Krishnamachary, Principal, Deans, HODs and Faculty members participated in the inaugural function. Mr. A. Srinivasulu, Coordinator presented the vote of thanks.



Fig. 1: Dr. K. Chandra Sekaran, Professor of CSE, NIT, Surathkal addressing the gathering.



Fig. 2: Prof. T. Gopala Rao, Special Officer, SVET, addressing the gathering



Fig. 3: Chief Resource Person interacting with the participants.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)

(Affiliated to JNTU Anantapur, Approved by AICTE, New Delhi & Accredited by NBA)

Short Term Faculty Training Programme "Programming in C and Data Structures" (03-09-2012 to 08-09-2012)

Jointly Organized By:
J.N.T. University, Anantapur
and
Department Of Information Technology
Sree Vidyanikethan Engineering College, Tirupati

with Financial Assistance from **APSCHE, Hyderabad**

A BRIEF REPORT

"Programming in C and Data Structures" is a very important subject for teachers and students of Engineering colleges. The subject brings out logical thinking in the student. Unlike other conventional subjects, student should use imagination power to understand and appreciate the subject. The subject also develops practical skills of programming in the student. Once the student gains the understanding of theoretical and practical concepts, he or she will be able to write programs for real world requirements and also execute the same in practical classes.

Dr.V.V.Rama Prasad, Professor and Head of I.T department and Coordinator has designed the programme in consultation with the stake holders for the six day short term training programme on "**Programming in C and Data Structures**" subject. The Department of Information Technology, Sree Vidyanikethan Engineering College has conducted the Short Term Faculty Training Programme from 03 to 08 September, 2012 for teachers of J.N.T.U.A affiliated Engineering Colleges of Chittoor and Nellore Districts. **Dr.P.C.Krishnamachary, Principal, SVEC** acted the convener of the programme. Well experienced and learned resource Persons have been drawn from both industry and academia. A total of 71 faculty members from Computer Science and I.T related departments have participated in the training programme.

The training program was inaugurated on 03-09-2012 at 9.30 A.M. by Prof. B. Uma Maheswar Gowd, Rector, JNT University, Anantapur. Dr.P.C.Krishnamachary, Principal, SVEC, Deans of various faculties, Heads of different departments, and faculty members from various Engineering Colleges participated in the inaugural function.

DAY-1 (03-09-2012)

The first session of the program was "**Basics of C language**". This was handled by Dr.R.Md.Shafi, Professor, SVEC. A few doubts from the participants were clarified. The afternoon session "**Control Structures Branching & Loops**", was dealt by Dr. Ms. K. UshaRani, Associate Professor of Computer Science, SPMVV, Tirupati. The Last session of the day was Practical Session on "**C Programming**".

M. Manohar
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DAY-2 (04-09-2012)

The first session was on "**Bit-Wise Operations I/O Operations ,Arrays**" Handled by Mr.M.Sudhakar, Software Engineer, Lanco industries Ltd ,Srikalahasti. The Second session was "**Functions and Pointers**" by Mr. P. Neelakantan, Professor of CSE,SVCET, Chittoor. The first session in afternoon was on the topic "**Recursion**". The Participants were very much Impressed by the variety of problems choosen for discussion. The Last session of the day was Practical Session on "**C Programming**".

DAY-3 (05-09-2012)

The first session was on "**Structures and Unions**" handled by Dr.R.Md.Shafi, Professor, SVEC. The second session was on "**Dynamic Memory Handling & File I/O**" by Mr.A.Srinivasulu, Associate Professor of IT,SVEC. The afternoon session was "**Preprocessor and Commands**" by Mr. B.Narendra Kumar Rao, Associate Professor of CSE,SVEC. The Last session of the day was Practical Session on "**C Programming**".

DAY-4 (06-09-2012)

The day started with the session on "**Stacks and Queues**" by Dr. M. Usha Rani, Associate Professor of CSE,SPMVV, Tirupati. The participants were very keen to listen to his topic.The Second session was on "**Singly Linked, Doubly Linked and Circular Linked list**" by Dr. P. Chenna Reddy ,Professor of CSE,JNTCEA, Pulivendula. The two sessions in Afternoon were Practice sessions. Participants were able to execute programs related to "Stacks, Queues and Linked lists".

DAY-5 (07-09-2012)

The day started with another distinguished resource person from JNTUCEA, Anantapur Dr. C. Shoba Bindhu, Associate Professor of CSE .She handled the first session on "**Stacks and Queues using Linked List**". Next session in forenoon was on the topic "**Introduction to Data structures, Time and Space Complexities**" by Dr. M. Padmavathamma, Professor of CSE, S.V. University. The afternoon session was on "**High Performance C & Applications**" by Dr.Amith P Kesarkar, Scientist-SD, NARL, Gadanki. He clearly dealt the finer points of the subject with some examples. The Last session of the day was Practical Session on "**C Programming**".

DAY-6 (08-09-2012)

The last day started with a session on "**Searching and Sorting**" by Shaik Munwar, Associate Professor of IT, SVEC. The next session was on "**Trees and Graphs**" by Mr.P. Srinivasa Reddi, Associate Professor of IT, SVEC. He clarified various doubts expressed by participants. In the afternoon session a test for participants was conducted on all the topics covered on all days.

Manohar
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Chittoor (Dist.) - 517 102, A.P., INDIA.

In the afternoon, feedback was collected from the participants in prescribed forms. All the participants expressed their full satisfaction satisfied with the training programme during the Valedictory Which. It is very fortunate to have distinguished Professor Dr. K. Lal Kishore, Vice-Chancellor, JNTUA, Anantapur as the chief guest for the Valedictory function. Dr. P. C. Krishnamachary, Principal, SVEC, Dr. V. V. Rama Prasad, Coordinator, other Directors, Various Heads of Departments, Teaching Staff, Press and media graced the occasion. Certificates were distributed to all the participants. Dr. V. V. Rama Prasad, Coordinator Proposed vote of thanks for the Six day Program

Course material and CD containing the lectures were distributed to all the participants. Working lunch and snacks were provided on all the days of training to all the participants, Resource persons and supporting staff.

In their feed back, 70% of the participants rated the programme as excellent and 30% as very good

It is strongly felt that the objective of conducting this programme is achieved. SVEC is very much thankful to JNTUA and A.P.S.C.H.E for providing such an opportunity to improve the quality and technical competence of the faculty members of its affiliated colleges. The college plans to organize many such programmes, under the support of JNTUA and APSCHE in future.


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DEPARTMENT OF INFORMATION TECHNOLOGY

Two Day workshop

on

Network Simulation using NS-2

The Department of IT organized a 2-Day workshop on "Network Simulation Using NS-2, during 14-15 December 2012 under TEQIP – II. The objective of this workshop is to impart knowledge on networks and to explore an open simulation environment for computer networking projects and research. The targeted audiences are UG and PG students.

This workshop mainly focused on Introduction to Linux, TCL,C++ and NS-2, Basics of OTCL, Developing various routing protocols, scripting and programming using NS-2, wired network design and performance evaluation, wireless network design and performance evaluation and implemented various case studies.

The workshop started with welcome address that was given by **Dr.V.V Rama Prasad**, Vice-Principal and HOD, Department of IT. He introduced the resource person Mr.Mohit P.Tahiliani, NITK, Surathkal. Principal **Dr. P.C. Krishnamachary**, Dean Academics **Dr.C Subhas** were attended the inauguration.



Chief Guest Dr. S.P Setty, and other Dignitaries, lighting the lamp

The session started by **Mr.Mohit P.Tahiliani** with the Introduction of Communication and Networks. Then he gave the clear view of what is wired and wireless networks and about MANET, VANET and Sensor. The detailed explanation of OSI layers, Ad-hoc network and NS2 was given. The front end and back end language used for the NS2 Simulator was discussed and detailed description of front-end(TCL Language) was clearly explained. The type of file that has to be created for the simulation process was shown as

demo. The steps to be followed to do a Network Simulation process and the application and links to be used for the TCP and UDP protocols were discussed.



Mr.Mohit P.Tahiliani addressing the gathering

In the second session, list of commands that has to be used in TCL was explained and also the sample programs by using those commands. This session was fully focused on Wired Network of Simulation process.

The Third session was started by **Mr.Shaik Munwar**, Assistant professor, Department of Information Technology. His lecture is about simulation and Interpretation of Trace file format, trace file analysis using Trace graph & Xgraph.

The fourth session was hands-on session started with a program for simulating a TCP connection by using 2 nodes. The visual movement of how packets are moving from one node to another was seen. Then the simulation was tried with more nodes by taking the previous program as a sample. The commands for changing the orientation of the nodes, color of the packets, shape of the nodes and giving labels for the nodes were discussed. The program by making the above changes was implemented.

On second day, first session was started by Prof. **K.Manikandan**, VIT University, Vellore. He fully focused on the Wireless Simulation process. The channels, antenna, type of the channel, protocol, attaching agent, topology, GOD operator and routing protocols that has to be used in the Wireless Simulation process were explained. He also explains How to create wireless system model, its configuration, and sample programs were implemented.

In the second session, Trace file format & Result analysis using trace graph and performance evaluation of a routing protocol using Trace Graph, simulation on WPAN and how to recompile new protocol in NS-2 were explained by Prof. **K.Manikandan**.



Prof. Manikandan addressing the gathering

The third session was delivered by Dr. **K.Ganesan**, Director TIFAC-CORE Project, VIT University, Vellore. He explains about TCL Programming, Advanced areas of wired and wireless networks and research challenges.



Dr. K.Ganesan delivering a lecture to the gathering

The fourth session was hands-on session for implementing the Wireless Simulation process. The sample programs were given by the resource person. By using that sample program the simulation of wireless network was done. The clear view of how a single node is broadcasting the packets to its neighbouring nodes and the RTS, CTS and ACK signals

were visually seen. Then the mobility for the nodes and command for setting the coordinates for the NAM window was explained. Then the attacks possible in the simulation such as Blackhole attack, selfish node attack Wamphire attack, Wormhole attack were explained.

Vote of thanks was given by **Mr. Shaik. Munwar**, Asst Professor of IT. One of the final year students gave a feedback about the workshop and thanked the management, department and the organizer for arranging the workshop. Certificates were distributed to all the participants.



"Research Methodology in Computer Science"

(June 28-30, 2013)

The department of Information Technology, SVEC, conducted a Three day workshop on "**Research Methodology in Computer Science**" under Technical Education Quality Improvement Program-II. **Dr. Salman Abdul Moiz**, Professor of CSE, HCU inaugurated the program. In his inaugural lecture as the chief resource person, he delivered a talk on "What is Research, Research types & efforts and Research Skills, Research Methodology and publications". About 80 faculty members participated in this event. **Dr. A. V. Dattatreya Rao**, Professor, ANU, Guntur delivered a talk on "Research Methodology for Grouping Large Data sets". **Mr. Ramanuj Chowsky**, Ph.D Scholar, VIT, discussed about "How to write Conference/ Journal/ Proposals in Latex". **Dr. K. Subramanyam**, Professor of CSE, KLU, demonstrated "Literature Survey, Search and Review and Plagiarism tool". **Mr. Sasidhara**, Ph.D Scholar, KLU, demonstrated "Referencing/ Paraphrasing using Endnote/ Reference Manager/BibTex". **Dr. I.V. Murali Krishna**, Formerly R&D Director, JNTUH, delivered "Research Methodology in Computer Science". **Dr. D. V. L. N Somayajulu**, Professor of CSE, NIT, Warangal, delivered "Evaluation and Validation". **Dr. P. Anjaneyulu**, Principal Research Scientist, Infosys, Bangalore, delivered "Google Scholar, Impact Factor, Citation Index and Professional Ethics". **Mr. A. Srinivasulu**, Associate Professor, IT Department, SVEC demonstrated the "Overview of Research Methodology and How to Read a Paper".

Dr. V. V. Rama Prasad, HOD and Convener welcomed the participants. Prof. T. Gopala Rao, S.O., Dr. D. V. S. Bhagavanulu, Director, Dr. P.C. Krishnamachary, Principal, Deans, HODs and Faculty members participated in the inaugural function. Mr. A. Srinivasulu and Mr. V. Lokanadham Naidu, Coordinator presented the vote of thanks.



Fig. 1: Prof. T. Gopala Rao, Special Officer, SVET addressing the gathering



Fig. 2: Dr. Salman Abdul Moiz, Professor of CSE, HCU addressing the gathering.



Fig. 3: Dr. A. V. Dattatreya Rao, Professor, ANU, Guntur, addressing the gathering.



Fig. 4: Mr. Ramanuj Chowsky, Ph.D Scholar, VIT interacting with the participants.



Fig. 5: Dr. K. Subramanyam, Professor of CSE, KLU interacting with the participants.



Fig. 6: Mr. Sasidhara, Ph.D Scholar, KLU interacting with the participants.



Fig. 7: Dr. I.V. Murali Krishna, Formerly R&D Director, JNTUH interacting with the participants.



Fig. 8: Dr. D. V. L. N Somayajulu, Professor of CSE, NIT, Warangal interacting with the participants.



Fig. 9: Dr. P. Anjaneyulu, Principal Research Scientist, Infosys, Bangalore interacting with the participants.



Fig. 10: Mr. A. Srinivasulu, Associate Professor of I.T, SVEC, interacting with the participants.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102

Department of Information Technology

A TWO DAY Faculty Development Programme

On

“WIRELESS SENSOR NETWORKS- APPLICATIONS AND CHALLENGES “

A Two day Faculty Development Programme (FDP) on **“WIRELESS SENSOR NETWORKS- APPLICATIONS AND CHALLENGES”** was organized by Department of IT under TEQIP-II on 20-21 April, 2013.

During the inauguration of the programme **Prof. S.V Gopalaiah**, Senior Scientific Officer, Wireless Communications and Networking, Iisc, Bangalore, **Dr. V.V. Rama Prasad**, HOD, IT, **Prof. T. Gopala Rao**, Special officer, SVET spoke on the need for up gradation of subject knowledge and skills to become a good teacher and also stressed the role of a teacher in guiding the students to achieve their goals. About **50** faculty members from different colleges participated in the programme.

In his inaugural lecture Prof. S.V Gopalaiah explained the Sensor network architecture and applications, recent trends in wireless sensor networks.

Dr. D. Sridharan, Associate Professor, Anna University delivered a talk on MAC layer and its issues related to Wireless Sensor Networks.

Sri. K. Masthan, Senior Software Engineer, Juniper Technologies, Bangalore, explained about various Routing Protocols and their performance in wireless sensor networks.

Sri. R. Kiran, Team leader, Nihon Communication Solutions Pvt. Ltd, Bangalore, delivered a talk on various simulation Tools for Wireless Sensor networks and he explained about a OMNET++ tool in detail.

Prof. K. Manikandan, VIT University, Given a lecture on LEACH Routing protocol, Sensor Coverage Optimization Techniques, Sensor Application Using TOSSIM.



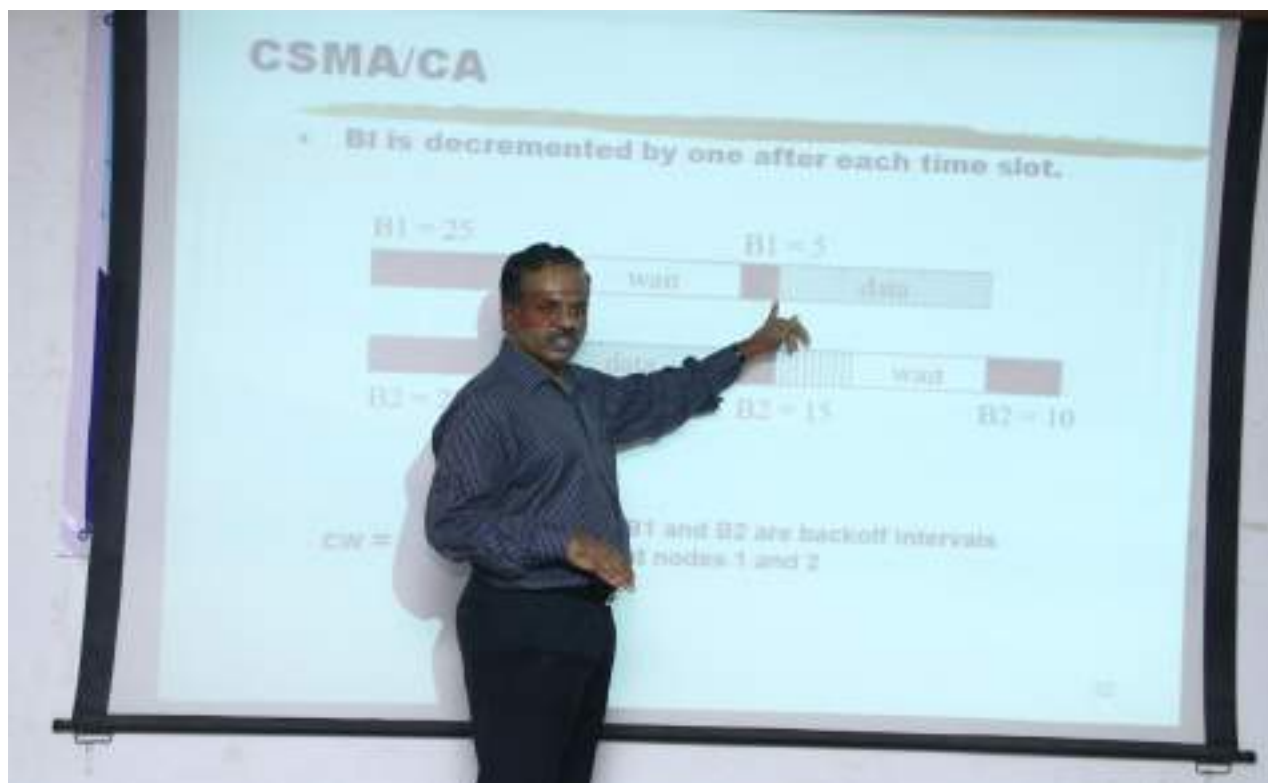
Inauguration lighting the lamp by Dignitaries



Inauguration - Addressing the Participants by Prof. T. Gopal Rao, Special Officer, SVET.



Lecture by S.V. Gopalaiah



Lecture by Dr.D. Sridharan



REPORT ON

ONE DAY STAFF DEVELOPMENT PROGRAMME ON "SAFETY AND MAINTENANCE MEASURES"

(24th January 2013)

A One Day Staff Development Programme on "Safety and Maintenance Measures" organized by department of mechanical engineering was inaugurated on 24th January 2013 by Sri. C.B.Jagadeeswara Reddy, District manager, NEDCAP, Chittoor along with Prof .T.Gopal Rao-Special Officer, SVET, Dr.K.C.Varaprasad, Convener and Head, Dr.P.C.Krishnamachari, Principal, Dr. D. V. S. Bhagavanulu, Director, Dr. D. V.Ramamurthy Dean, R&D.

In the Inaugural speech Sri. C.B.Jagadeeswara Reddy – District manager NEDCAP shared few past experiences on safety and maintenance aspects.

The following technical sessions were held:

Details of the Session	Topic	Details of Resource Person
Session -1 10:45 AM to 12:30 Noon	Non Conventional Energy sources .	Sri.C.B. JAGADEESWARA REDDY, District Manager, NEDCAP, Chittoor
Session -2 1:45PM to 3:30 PM	Laboratory Maintenance and Accident Investigation and reports	Prof. A.V.S.Sridhar, Head & Vice-Principal, Dept. of Mechanical Engineering, Narayana Engineering College, Nellore.
Session -3 3:30PM to 4:15PM	Fire fighting and Safety aspects in Laboratories	Sri.Markendeyulu Seven Hills fire fighting equipments, Tirupati.
Session -4 4:30 PM to 5:30 PM	Demo with Fire Fighting equipments	

All the participants have immensely benefited out of the talks delivered by the speakers and hands-on-training on using the fire safety equipments. The same was reflected in the high rated feedback given by the participants at the end of the workshop.



REPORT ON
IMPORTANCE OF INTELLECTUAL PROPERTY RIGHTS
(Guest Lecture)

12th October, 2012

A Guest lecture on “Importance of Intellectual Property Rights” by Dr.N.V.R Naidu, Professor and Vice Principal, M.S.Ramaiah Institute of Technology, Bangalore was arranged for the Students and Faculty of Department of Mechanical Engineering in Dasari Auditorium of Sree Vidyanikethan Engineering College on 12th October 2012.

In his address, Dr. N.V.R. Naidu elaborated and explained that Intellectual property has increasingly assumed a vital role with the rapid pace of technological, scientific and medical innovation that we are witnessing today. Moreover, changes in the global economic environment have influenced the development of business models where intellectual property is a central element establishing value and potential growth. In India several new legislations for the protection of intellectual property rights (IPRs) have been passed to meet the international obligations under the WTO Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).

Over a period of time and particularly in contemporary corporate paradigm, ideas and knowledge have become increasingly important parts of trade. Most of the value of high technology products and new medicines lies in the amount of invention, innovation, research, design and testing involved. Films, music recordings, books, computer software and on-line services are bought and sold because of the information and creativity they contain, not usually because of the plastic, metal or paper used to make them. Many products that used to be traded as low-technology goods or commodities now contain a higher proportion of invention and design in their value, for example, brand-named clothing or new varieties of plants. Therefore, creators are given the right to prevent others from

using their inventions, designs or other creations. These rights are known as intellectual property rights.

Intellectual property has therefore grown into one of the world's biggest and fastest-growing fields of law thereby necessitating the demand for IP professionals well versed in this area to deal with (IPRs) across the national and international borders.

Dr.N.V.R. Naidu has provided the students with a wide perspective and in depth knowledge in intellectual property to enable them to get solid grounding in the legislative framework, practice and procedure of the intellectual property protected through patents, trademarks, copyrights, designs and geographical indications. Later students interacted with the resource person regarding the filing procedures for patents and copyrights.



Dr.N.V.R.Naidu, Professor & Vice Principal, M. S. Ramaiah Institute of Technology, Bangalore, addressing the Students & Faculty



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Dr.N.V.R.Naidu, Professor & Vice Principal, M. S. Ramaiah Institute of Technology, Bangalore, addressing the Students & Faculty



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517 102, A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

A report on Industry Expert Lecture on "THERMAL POWER PLANT AND METHODS TO IMPROVE ITS CYCLE EFFICIENCY"

28th March 2013

The department of Mechanical Engineering conducted an Expert lecturer on "THERMAL POWER PLANT AND METHODS TO IMPROVE ITS CYCLE EFFICIENCY" under Technical Education Quality Improvement Program - II(IIIC). The Lecture started at 2:15 PM on 28th March 2013 after conveying the objective and introduction to resource person Sri.V.V.N Murthy, Sr.Manager, Meenakshi Energy Pvt Ltd, Nellore. 191 participants from I & II B. Tech (ME) & department faculty members attended the program. During the first session the expert delivered lecture on thermal power plants, basic elements of thermal power plant like boiler, turbine, condenser, cooling tower & the functions of each component of thermal power plant. The talk was continued on thermal power plant and practical scenarios in Meenakshi Energy Pvt. Ltd. During the second session the expert delivered lecture on methods to improve the thermal power plant cycle efficiency. Finally, participants interacted with the resource person and cleared their research hurdles in thermal power plant and methods to improve its cycle efficiency in general and Meenakshi Energy Pvt. Ltd. in particular.



Sri.V.V.N Murthy, Sr.Manager, Meenakshi Energy Pvt Ltd, Nellore addressing the students.



Resource Person speaking on "Thermal Power Plant And Methods To Improve Its Cycle Efficiency"



Faculty & Students listening to the lecture



**A report on three day Faculty Development
Program on
"DIGITAL MANUFACTURING IN THE GLOBAL ERA"
7th - 9th March 2013**

A three day Faculty Development Programme (FDP) on "**DIGITAL MANUFACTURING IN THE GLOBAL ERA**" was organized under TEQIP-II for the **Faculty of Mechanical Engineering** in Seminar hall of Mechanical Engineering building from **7th to 9th March 2013**.



Dr. C.S.P.Rao with his keynote address

Dr. C.S.P. Rao delivered keynote address on the topic "Digital factories and digital manufacturing – An overview". He highlighted history and developments in manufacturing, product life cycle management, simulation and virtual manufacturing. Through a case study, he illustrated the application of digital manufacturing.



Dr. V. Venugopal Reddy addressing the participants

Dr. V. Venugopal Reddy gave a lecture on “Design automation of robotic structure”. He explained the design of known robot manipulator for its five axis movement and checking its compatibility for any other unknown kind of robot.



Dr. L. Sivaramakrishna addressing the participants

Dr. L. Sivaramakrishna talked about “Web based rapid prototyping”. His talk included web based manufacturing system fundamentals, rapid prototyping fundamentals and several live case studies.



Dr. O.V.K.Chetty addressing the participants

Dr. O.V.K. Chetty lectured on “Petri nets modeling and simulation”. He elucidated how petri nets can be applied to manufacturing systems.



Dr.K.Prahlada Rao addressing the participants

While delivering lecture on “Knowledge based manufacturing”, Dr. K. Prahlada Rao emphasized the use of expert systems in manufacturing.



Dr. K.Janardhan Reddy addressing the participants

Dr. K. Janardhan Reddy, while delivering a lecture on “Product design and life cycle management” highlighted the importance of product life cycle management and elaborated on new product development and product development process.



Sri. G.V. Dasarathi addressing the participants

Sri G.V. Dasarathi, while talking about “5 Ms of Digital Manufacturing- the CNC Angle” explained the 5Ms of manufacturing, cleared some misconceptions of CNC machining and highlighted the skills required by the industry and how to get students industry ready.



Dr. C.S.Chetan Kumar addressing the participants

Dr. C.S. Chetan Kumar delivered a lecture on “Lean manufacturing”. He explained basic elements of lean and elaborated principles of lean and Toyota way.



Dr.C.N.V.Sridhar addressing the participants

Dr. C.N.V. Sridhar talked on “e-manufacturing d-manufacturing: Research potential”. He illustrated e-manufacturing case studies, explained web based rapid prototyping system and highlighted scope of digital manufacturing besides giving a good number of research topics in digital manufacturing.



Dr. K.C. Varaprasad addressing the participants

Dr. K.C. Varaprasad delivered a lecture on “Reconfigurable manufacturing systems”. He highlighted manufacturing paradigms, flexible manufacturing systems, computer integrated manufacturing besides explaining components, principles and characteristics of reconfigurable manufacturing systems. He also highlighted design issues in reconfigurable manufacturing systems.



Guests on the dais during Valedictory function

Certificates were distributed to the participants.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A.Rangampet, Near Tirupathi – 517 102
DEPARTMENT OF BIOTECHNOLOGY

ONE DAY Expert lecture ON Therapies for Diabetes Complications UNDER TEQIP-II

A one day Expert lecture on Therapies for Diabetes Complications for M.Tech and B.Tech students is organized by Dept. of Biotechnology under TEQIP-II on 20th July, 2013.

During the forenoon session Dr. S. Manoj kumar, Senior Scientist, Connexios life sciences, Bangalore delivered a talk on various complications of Diabetes mellitus.

Later in the afternoon session Dr. S. Manoj kumar, spoke on different therapies available for the treatment of Diabetes mellitus.

Finally participants interacted with the resource person and cleared their doubts regarding diabetes complication and therapy.



Dr.S. Manoj kumar delivering a talk on Therapies for Diabetes complications



Students paying attention to lecture by Dr.B. Manoj kumar

P. Harjith
HOD, BOT



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A.Rangampet, Near Tirupathi – 517 102

DEPARTMENT OF BIOTECHNOLOGY

ONE DAY Expert lecture ON Molecular Pathogenesis of Parasites and Bacteria UNDER TEQIP-II

A one day Expert lecture on Molecular Pathogenesis of Parasites and Bacteria for M.Tech students is organized by Dept. of Biotechnology under TEQIP-II on 20th July, 2013.

During the forenoon session Dr. B. Venkata Subbaraju, Associate Manager, Biocon, Bangalore delivered a talk on various Molecular pathogenesis of Bacteria.

Later in the afternoon session Dr. B. Venkata Subbaraju spoke on Molecular pathogenesis of Parasites.

Finally participants interacted with the resource person and cleared their doubts regarding bacterial and parasite infections.



Dr.B. Venkata Subbaraju delivering a talk on Molecular pathogenesis of parasites and bacteria



Dr.B. Venkata Subbaraju clarifying the doubts of students

P. Hanjir

HOD, BOT



DEPARTMENT OF CIVIL ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102, A.P.

**Two Day National Level Faculty Workshop on
LATEST DEVELOPMENTS IN PAVEMENT CONSTRUCTION AND
MAINTENANCE (LDPCM)
26-27 July 2013**

The Department of Civil Engineering of Sree Vidyanikethan Engineering College organized a Two-Day National Level Faculty Workshop on LATEST DEVELOPMENTS IN PAVEMENT CONSTRUCTION AND MAINTENANCE (LDPCM) during 26-27, July 2013 under TEQIP-II at the **Seminar Hall of Civil Engineering Block**. The objective of the program is to bring together the practicing engineers, eminent academicians and researchers to share their ideas and experiences with the faculty of civil engineering from various colleges. This program is helpful to educate the faculty regarding the latest technologies that were developed in the field of pavement construction and maintenance and in inspiring them to take up research in that field.

Practicing engineers from L&T IDPL Mr. Durga Prasad, Senior Manager and Mr. B Anil Kumar, Engineer from Design/Engineering Department, Larsen & Toubro Infrastructure Developmental Projects Limited, Chennai ; Er. Satish Pandey, Scientist, Flexible Pavement Division, Assistant Professor, Academy of Scientific & Innovative Research AcSIR, CSIR-Central Road Research Institute, New Delhi ; Dr. Amarendra Kumar Sandra, Manager, Pavement Research Centre, GMR Infrastructure Ltd, EPC Division, GMR Hyderabad International Airport Ltd., Hyderabad attended the workshop as resource persons.

The inaugural address was delivered by Mr. V Durga Prasad, the Chief Guest and Mr. B V S K Anil Kumar was the guest of honour.

Prof. T. Gopal Rao, the Special Officer, SVET; Dr. D.V.S. Bhagavanulu, Director, SVEC; Dr B. Mohan, Director, SVIM; Mr. O.Eswara Reddy, Convener-LDPCM and Head of Department of Civil Engineering graced the occasion.

About 32 faculty members from various colleges participated in the workshop.

The participants and members of faculty of the Department of Civil Engineering were richly benefited by the workshop.

The album of the workshop is enclosed.

Convener – LDPCM

Coordinator – LDPCM



DEPARTMENT OF CIVIL ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102, A.P.



From Left: Prof. T. Gopal Rao, Special Officer, SVET.
Mr. O. Eswara Reddy, Convener-LDPCM and Head, Department of Civil Engg.
Mr. V. Durga Prasad, Senior Manager, Design/Engineering Department, Larsen & Toubro IDPL, Chennai,
Mr. B. Anil Kumar, Engineer, Design/Engineering Department, Larsen & Toubro IDPL, Chennai. Dr.
D.V.S. Bhagavanulu, Director, SVEC
Dr. B. Mohan, Director, SVIM, at the Inaugural of LDPCM.





DEPARTMENT OF CIVIL ENGINEERING
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Mr. B. Anil Kumar- Engineer, Design/Engineering Department, Larsen & Toubro IDPL, Chennai, addressing the participants on *Sophisticated & Reliable Practice of Pavement Design*



Mr. V. Anil Kumar, Senior Manager, Design/Engineering Department, Larsen & Toubro IDPL, Chennai, addressing the participants on *Sustainable Pavement Maintenance Techniques*





DEPARTMENT OF CIVIL ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
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Er. Satish Pandey, Scientist, Flexible Pavement Division, Assistant Professor, Academy of Scientific & Innovative Research AcSIR, CSIR-Central Road Research Institute, New Delhi, addressing the participants on ***Advancements in Bituminous Materials and Technologies for Road Construction***



Dr. Amarendra Kumar Sandra, Manager, Pavement Research Centre GMR Infrastructure Ltd, EPC Division GMR Hyderabad International Airport Ltd., Hyderabad, addressing the participants on ***Pavement Maintenance***



Er. Satish Pandey, Scientist, Flexible Pavement Division, Assistant Professor, Academy of Scientific & Innovative Research AcSIR, CSIR-Central Road Research Institute, New Delhi, delivering his 2nd lecture on ***MICROSURFACING : Eco-Friendly Technology For Road Maintenance***



DEPARTMENT OF CIVIL ENGINEERING
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From Right: Dr. P.C. Krishnamachary, Principal, SVEC, Mr. O.Eswara Reddy, Convener-LDPCM, Mr. T.R. Nutan Kumar, Coordinator – LDPCM, looks on as the chief guest Er. Satish Pandey, Scientist, Flexible Pavement Division, Assistant Professor, Academy of Scientific & Innovative Research AcSIR, CSIR-Central Road Research Institute delivers the Valedictory Address.



Feedback by Participants



DEPARTMENT OF CIVIL ENGINEERING
SREE VIDYANIKETHAN ENGINEERING COLLEGE
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Distribution of certificates by the Chief Guest



Group Photo of the Workshop Participants

Department of Computer Science and Engineering

STAFF TRAINING PROGRAM

Staff Training Program on “**Network Concepts and Applications**” under TEQIP-II is organized by the Dept. of CSE for Non-Teaching and DTP operators EDC Cell during 19-10-2013, **Mr. V. Suresh**, IT Agility, Bangalore, **Mr. Venkat**, HP, Bangalore and **Mr. Naveen**, IDS, Hyderabad are the resource persons.

Mr. V. Suresh has discussed about the Network concepts with different topologies and types Network. **Mr. Venkat** discussed about the Different Layers in network architecture and their functions. **Mr. Naveen** has discussed about the different network protocols and their role on building the applications in the real world. The sessions are good, interactive and fruitful. Staff Members are gained knowledge on Network concepts and their applications.



Mr. V. Suresh, IT Agility, Bangalore **Mr. Venkat**, HP, Bangalore



Mr. Naveen, IDS, Hyderabad



Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME

Two Days FDP on “**Wireless Networks**” under TEQIP-II is organized by the Dept. of CSE for staff members in ED Cell during 29 - 30 Mar 2014, **Dr. Ashok Kumar Das**, IIIT-Hyderabad, **Dr. G. Nagarajan**, Professor, PEC, Pondicherry, **Mr. BhargavRaman**, Team Leader, Nihon Communications, Bangalore are the resource persons.

Dr. Ashok Kumar Das discussed about the wireless networks and different architectures. **Mr. BhargavRaman** and **Dr. G. Nagarajan** shared the information about the application areas of Wireless Networks and challenges in the domain. The sessions are interactive and fruitful. Students are gained knowledge on Database Security and Privacy techniques for doing research work.

A Two Day National Level Workshop

on
"Knowledge Mining Using SPSS Modeller and WEKA"
November 15-16, 2013

Department of CSE organized a Two Day Workshop on "Knowledge Mining Using **SPSS Modeller and Weka**" during 15 – 16 November, 2013. The Program was inaugurated by **Dr. Durga Toshniwal, Associate Professor, IIT, Roorkee.**

On the first day (15-11-2013) of the program Dr. Durga Toshniwal, Associate Professor, IIT, Roorkee explained about **Introduction to Data Mining and Research Issues in Data Mining**. The Afternoon session was delivered by Dr. Lakshmi Narasimhan, Professor, Resource persons East Carolina University, USA on **Hands-on sessions on Data Mining tool Weka.**

On the second day (16-11-2013) Dr. R.B.V.Subramanyam, Associate Professor, NITW, Warangal addressed current trends & issues in **SPSS Modeller**. The afternoon session delivered Mr. Venkat, Software Engineer, Evam Tech, Bangalore on **Hands-on session on SPSS Modeller**. All the FDP Sessions were highly interactive and were quite interesting.

Outcomes:

- Faculty Gained in depth knowledge and on Data mining research issues.
- Faculty can understand and practiced the data mining tool Weka.
- Faculty Gained in depth knowledge and on SPSS Modeller.
- Faculties are motivated to use these data mining tool Weka and SPSS Modeller.

A Two Day Faculty Development Programme

**“Research Perspectives and Challenges in Database Security & Privacy”
on
December 02-03, 2013**

Department of CSE organized a two day FDP on **“Research Perspectives and Challenges in Database Security & Privacy”** during 02 – 03 December, 2013. The Program was inaugurated **Dr. M. Thangaraj, Associate Professor, MKU , Madurai.**

On the first day (02.03.2013) **Dr. M. Thangaraj, Associate Professor, MKU , Madurai** explained about **Challenges in Database Security and Privacy**. The afternoon session was delivered by **Ms. V Gayatri, SP Soft Global Pvt. Ltd on Multilevel Security and Database Certification and Accreditation.**

On the second day (03.03.2013) **Dr. M. Thangaraj, Associate Professor, MKU , Madurai** explained about **MAC Based Security Models and Implementing Virtual Private Databases**. The afternoon session was delivered by **Mr. Y. Venkatesh, SP Soft Global Pvt. Ltd on Application Security and SQL Injection**. All the FDP Sessions were highly interactive and were quite interesting.

Outcomes:

- Faculty were introduced to the current challenges and opportunities in the Database Security.
- Faculty gained ability to develop, deploy and maintain database administrators (DBA) and security Professionals.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet – 517 102

Department Of Computer Science & Systems Engineering

Faculty Development Programme on

“Cyber Forensics and Information Security”

The Department of Computer Science and Systems Engineering organized FDP on **“Cyber Forensics and Information Security”**, 27th -28th, December 2013, under TEQIP – II.

This FDP mainly focused on Fundamentals of Network Security, Cyber Security, Research issues in Cyber Forensics, Personal Computer Security and cyber Laws.

The faculty from various colleges across the nation attended the FDP.



Dignitaries on the Dais during the Inaugural function



Chief Guest **Dr. Rama Murthy Garimella**, lighting the lamp



Dr. Rama Murthy Garimella addressing the gathering



The Participants from Various colleges

Garimella Rama Murthy, Associate Professor, Department of CSE, IIIT-H, Hyderabad, has more than 15 years of teaching experience. He published 184 papers in the areas of Wireless Sensor Networks, Ad hoc Wireless Networks and Network Security.

He gave a detailed presentation on Introduction to Networked Communication, Goals of Cryptography, Symmetric Key Cryptography, Asymmetric Key Cryptography, Goals of Network Security, Security in Wired Networks, Security in Wireless Networks (Cellular Nets and MANETs), Security in Cognitive Networks.



Dr. Kannan Srinathan, delivering the lecture

Dr. Kannan Srinathan, Assistant Professor, Department of CSE, IIIT-H, Hyderabad has more than 8 years of teaching experience. He published more than 170 papers in the areas of Cryptography and Security. He completed a research project for "Naval Research Board on Cryptography and Security". His session includes discussion on Unification, Uncertainty and Adversity, Universality and Reversibility and Authentication and Intelligence.



Mr. Krishna Sastry Pendyala, delivering the lecture

Mr. Krishna Sastry Pendyala, Ex-Forensics Scientist, Govt. of India is a steering group member of several Ministry of Communication & Information Technology funded projects. Professionally trained and experienced in identifying, handling, preserving and analyzing the digital evidence encountered in various Cyber crimes. He published various papers in the field of Cyber Frauds, Network Security, Incident Response Team and Cyber Forensics in various journals/ magazines and at Conferences.

He gave a presentation on Digital Forensics – Integral Part of Information Security included Data Diddling, Dead Dropping, Guerrilla Mail, Anonymizer.com, Keylogger Software & Hardware, Stuxnet, Nitro Attacks, Ddos Attacks, Ghostnet, Cyber Defamation, Phishing, Suspicious Router, and Various Cyber Crimes.



Prof. Y. Satyanarayana, delivering the lecture

Prof. Y. Satyanarayana, Director, School of Law, GITAM University, Dean and Principal, Dr. B. R. Ambedkar College of Law, A.U, First Vice-Chancellor, AP University of Law, Visakhapatnam. He also served the Indian Air force for 15 years. produced 20 Ph.Ds and one LL.D and also turned out 85 LL.Ms, Published about 60 Research papers on Law and other interdisciplinary themes and conducted more than 90 seminars and conferences on different themes of Law and Chaired/Co-Chaired a number of sessions with distinguished Academia and Jurists.

His elaborate presentation on 'Law and Cyber Technology and The IT Act, 2000', includes legal recognition for transactions carried out through electronic mode and related data, legal recognition to digital signature, electronic filing of documents with government departments, storage of electronic data and electronic fund transfer etc.

40 students are gained knowledge on Cyber Forensics and Information Security.

The outcomes of this programme are:

- Students learnt best practices from real case studies.
- Students can develop applications/projects using code obfuscation and other techniques as a cyber-defense mechanism.
- Students explored the research opportunities in Fraud detection Management.
- Students gained knowledge on various techniques to detect, respond to and prevent network intrusions.

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet – 517 102

Department of Computer Science and Systems Engineering

Faculty Development Programme on

“High Performance Computing”

The Department of Computer Science and Systems Engineering, organized Faculty Development Programme on **“High Performance Computing”**, 30th -31st, August 2013 under TEQIP – II.

This Faculty Development Programme covered both hardware and software aspects of High Performance parallel and distributed systems. It mainly focused on Fundamentals of HPC-Parallel Computing, Services of HPC, Parallel Programming with MPI, Introduction to Multicore Architectures, Parallel programming with Open MP, Parallel Algorithms for Multicore Architectures, Green HPC, HPC & Cloud.

The faculty from various colleges across the nation attended the FDP.



Inaugural Function of Faculty Development Programme on “High Performance Computing”



Dr. V.C.V. Rao, C-DAC, Pune delivering lecture on “Fundamentals of HPC Parallel Computing, Processor Architecture for HPC, Parallel Programming with MPI”



Dr. Amit Parashuram Kesarkar, NARL, Gadanki discussing “Introduction to Multicore Architectures”



Dr. Chapram Sudhakar, NIT, Warangal delivering lecture on "Green HPC, HPC & Cloud"



Dr. M. Rajasekhar Babu, VIT, Vellore delivering lecture on "Parallel Programming with OpenMP, Parallel Algorithms for Multicore Architectures"



Group Photo

40 Faculty members participated and gained knowledge on High Performance Computing.

Outcome and Importance of the Faculty Development Programme on "High Performance Computing"

- Exposure to knowledge in advanced subject area.
- It helps in designing B.Tech or M.Tech Curriculum.
- It helps for setting up new laboratory in the area of High Performance Computing.
- Interaction with subject experts and exchange of new ideas.

Report

Two day Faculty Development Programme
on

"Characteristics of Teaching Skills and Effective Student Counseling"

The FDP started at 9.00 AM on 27th September 2013 with a formal inauguration and welcome address by the co-ordinator. Prof. T. Gopala Rao, Special Officer, Sree Vidyanikethan Educational Trust, Dr. D.V.S Bhagavanulu, Director, SVEC, Dr. P. C. Krishnamachary, Principal, SVEC were the Chief invitees along with the member of the Faculty. The Convener of the Programme, Dr. C. Subhas, Dean Academics, briefed about the objective of the FDP and gave his Opening remarks. Mr. P. Madhu kumar introduced the resource persons Mr. Sanjay Asthana, Ms. Manisha Balay, Dr. Trusha Wadkar and Ms. Nithisha Goyal. 62 participants registered themselves for the program.

During the first day i.e. 27th September 2013, experts in the morning session explained the importance and methods for improving leadership skills, developing confidence and Effective Communication. Various role plays were incorporated during the program. In the afternoon session, the significance of balanced and pleasing personality, body language, art of listening, dining manners and etiquettes were discussed. The participants were trained on methods of anger handling and stress handling along with some case studies and brain storming sessions.

During the second day i.e. on 28th September 2013, various aspects regarding students counseling like understanding students psychology and their needs, how to motivate students, how to enforce discipline and give them proper carrier guidance were discussed. Interactive sessions were conducted on teaching in challenging environment, quality teaching practices and ethics in teaching profession. In the last session, the participants interacted with resource persons and clarified their tribulations which occur during their professional work.

Certificates along with a folder and Software CDs were distributed to the registered participants in the valedictory function.

Convener

**A Two-day Faculty Development Programme
on
Characteristics of Teaching Skills and Effective Student Counseling (27-28**



Sept. 2013)

Faculty registering themselves at the venue for the Faculty Development Programme



Prof. T. Gopala Rao, Special Officer Speaking about the importance of the FDP with participants and resource persons



Dr. C. Subhas, Convener of the Programme giving opening remarks on the Faculty Development Programme



Resource Persons Mr. Sanjay Asthana and Ms. Manisha Balay speaking on leadership skills.



Role play emphasizing the importance of body language in communication.



Participant interacting with the resource persons about the challenges they have faced earlier, for carrying on student counseling effectively in future.



Resource persons Dr. Trusha Wadkar, Ms. Manisha Balay, Nitisha Goyal, Mr. Sanjay Asthana (from left) with participants listening to the oral feedback from one of the participants.



Dr. D. V. S. Bhagavanulu, Director of SVEC giving away the participation certificate to one of the participants.

Name of the Academic Programme : Two Day Faculty Development Program on
**“Characteristics of Teaching Skills and Effective
Students Counseling”**

Duration of the program (Dates): 27-28 September 2013

Outcomes

- Expanded knowledge base of the faculty and improved teaching skills, pedagogical skills, management skills in the domain of academic and research.
- Developed confidence, positive approach, leadership skills, anger and stress handling techniques.
- Trained for understanding student psychology and building healthy relationship with students so as to create successful learning environment.
- This FDP addressed various aspects of teaching and learning viz. essential teaching skills, effective student counseling practices, use of innovative methods for quality teaching practices and suggesting future avenues.

Convener

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

One-Day National Level Workshop

on

“ELECTRICAL WIRING AND MAINTENANCE OF DOMESTIC APPLIANCES”

A One day National Level Workshop was conducted by the department of EEE on 25/03/2014 for Technical staff, Non-Teaching staff of various engineering colleges within the state and also for in house technical staff. The National Level Workshop was conducted to impart awareness about the importance of Electrical Wiring, Repairs and Maintenance of Domestic Appliances.



Address by Chief Guest, Resource person and Head of Department

Electrical wiring is more important; it is a vital and necessary part of life in the 21st Century. With it, we enjoy lighting for our home, and heat and cooling to keep ourselves comfortable, and access to the countless appliances that make our lives better. This programme is emphasized on educating the staff about the importance of Electrical Wiring and Maintenance of Domestic Appliances in an efficient manner and in practical approach.

The programme is organized in two sessions: of Electrical Wiring and Maintenance of Domestic Appliances. The in house resource persons Mr. M. Manohara & Mr. N. M. G. Kumar were delivered about repair and maintenance of Domestic appliances. Senior technicians gave information about how to repair domestic appliances and the importance of earthing for domestic appliances.

In valedictory function, the HOD Dr. T. Devaraju addressed the gathering and urged all the staff members to motivate the students, their fellow colleagues and others keeping home safe and allowing to fully enjoying the comforts of modern living.



Mr. M. Manohara demonstrating how to repair iron box



Dr. T. Devaraju explaining about working modal of energy meter



Dr. P. Umapathi Reddy demonstrating lamp load on energy meter



Mr. S. Azeez Demonstrating the repair of geyser



Distribution of Certificate to the participant



Group photo of One-Day National Level Workshop on "Electrical Wiring and Maintenance of Domestic Appliances"

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY DEVELOPMENT PROGRAMME ON

“ADVANCES IN POWER SYSTEM STABILITY AND RELIABILITY”

03rd & 04th, March 2014.

The Department of EEE organized FDP on **“ADVANCES IN POWER SYSTEM STABILITY AND RELIABILITY”** during 03rd & 04th, March 2014, under TEQIP – II, to provide the opportunity for the faculty & researcher scholars to know the Advances in Power System Stability & Reliability in Electrical Engineering.

This workshop mainly focused on research challenges and latest developments in the area of Power System Stability & Reliability.

The resource persons gave lectures on

- Power System Stability
- Distributed Generation
- De-Regulation of Power Systems
- Power System Reliability
- FTA & FMEA in Power System Reliability
- Risk & Failure Analysis and
- Practical applications to Power Distribution system Reliability.

About **70 members** from various engineering colleges and Faculty of EEE, SVEC have participated in the program.

Dr.V.Sankar, Professor of EEE and DAP, JNTUA, Anantapuram was the Chief Guest. He addressed the Participants on importance of outcome based education in his Inaugural speech.

Dr. P.C. Krishnamachary, Principal and **Dr.T.Devaraju**, Convener of the workshop welcomed the participants.

Dr. V. Sankar, **Dr. Sree Ram Srinivas**, **Dr. C. Venkatesh**, **Mr. AVV. Sudhakar** and **Dr. K. Srinivas** are the resource persons for the workshop.

Photo Gallery

FDP on "ADVANCES IN POWER SYSTEM STABILITY AND RELIABILITY" 03rd - 04th, March 2014



Welcome Speech by Dr. T. Devaraju,
Prof & Head Dept. of EEE



Inaugural Speech by
Dr.P.C. Krishnamachary, Principal.



Dr. V. Sankar, Prof of EEE, DAP, JNTUA
delivering the lecture



Dr. Sriram Srinivas, IITM, Chennai
delivering the lecture



Dr. T. Devaraju with the resource person
Dr. C. Venkatesh



Dr. K.Srinivas, DE, APTRANSCO
delivering the lecture



**FDP on "ADVANCES IN POWER SYSTEM STABILITY AND RELIABILITY"
03rd - 04th, March 2014**

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

A one-day workshop

PSCAD APPLICATIONS IN ELECTRICAL ENGINEERING

Under TEQIP-II, 2nd March, 2014

This workshop mainly focused on PSCAD software and its applications in Power Systems, Power Electronics, Electrical Machines and Protection of Power Systems.

Dr. C. Venkatesh, Professor & Head, Department of EEE, SR Engineering College, Ph.D. from NIT Warangal, having more than 16 years of teaching experience. He published more than 30 national and international journals including IEEE journals in the areas of Power Systems and Power Electronics and he is a professional in PSCAD software.

He gave a detailed presentation on PSCAD software and hands on training to the faculty on various applications in Electrical Engineering.

Mr. A.V.V. Sudhakar, Associate Professor Department of EEE, SR Engineering College having more than 14 years of teaching experience and he is a professional in PSCAD software.

He gave a detailed presentation on PSCAD software and hands on training to the faculty on various applications in Power Electronics and Renewable energy resources.



In the afternoon session Hands on training was given to the faculty in PSCAD software with examples in different areas like Power system Protection, Transmission line design, Transformer design, Induction Motor design, FACTS controllers and HVDC systems by the resource persons.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

One-day Staff development program

On

**Conservation of Water and Energy in Domestic and
Industrial Sectors**

A One day staff development programme was conducted by the department of EEE on 01/03/2014 for Technical staff, Non-Teaching staff of various engineering colleges within the state and also for in house technical staff. The staff development programme was conducted to impart awareness about the importance of water and energy in present premises, on the current issues and problems on shortage of water and energy and various methods of conserve them.



Address by Chief Guest, Resource person and Head of Department

Water and energy crises are global problems that many countries are now facing over the past few decades. This programme is emphasized on educating the staff about the importance and various methods to conserve the water and energy in an efficient and in practical approach.

The programme is organized in two sessions: each emphasizing on the importance of water management and energy management.

The in house resource persons Dr. DVS Bagavanulu addressed the gathering about the importance of water in domestic sector and various methods of effective utilization of water.



The other resource person Dr. Y. V Subba Reddy addressed the gathering about the importance of water conservation in industrial sector and emphasized on the recycling and conservation methods effectively.



Mr. M. Manohara & Mr. N. M. G. Kumar had delivered about the importance energy, viable alternate sources of energy and various methods to conserve it in our daily life in a lucid and effective manner.

In valedictory function, the HOD Dr. T. Devaraju addressed the gathering and urged all the staff members to motivate the students, their fellow colleagues and others to practice and implement the water and energy conservation methods so that the natural resource can be utilized by the futures generations in a fruit full manner.



A two day National seminar on “Power Distribution Automation and Reliability Assessment” is organized on 24th & 25th Jan 2014 for internal and external post graduate students (EPS) and faculty of Electrical & Electronics Engineering in E-Class room. A brief discussion about power distribution system, techniques for the power loss reduction and distribution automation has been done.

The importance of power quality analysis, various power quality devices and their role in distribution system has been delivered. The importance of the power system security and the reliability studies was also explained. Nearly 65 members got immensely benefited from this seminar.



Dr. P. Umapathi Reddy, Professor & Convener,
giving welcome address



A section of Participants and invitees



Dr. V. Sankar Professor & DAP, JNTUA
Delivering his lecture



D. V. Chalapathi, DE, APSPDCL, Tirupati
delivering his Lecture



Dr. K.S. Swarup, IITM, Chennai,
delivering his lecture



Dr. S. Sivanagaraju, Professor & Head, JNTUK,
Kakinada, delivering his lecture



Dr. DM Vinod kumar, Professor, NIT, Warangal,
delivering his lecture



Dr.P. Umapathi Reddy, Professor & Convener,
SVEC, Tirupati, delivering his lecture



Group Photo: Participants, Resource Persons & Staff of EEE,
Sree Vidyanikethan Engineering College, Tirupati.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati - 517102

A Report on

Train the Trainer Programme -NASSCOM FSIT

Master Trainers, Mr. U. Ravindra Babu, Ms. G. Sunitha, Ms. B. Anitha and Ms. A. Sumera organized Train the Trainer (TTT) programme for the teaching faculty members in Sree Vidyanikethan Engineering College.

The Master Trainers were trained as a part of SPFU, AP (& Department of Technical Education, Government of AP) and NASSCOM State Project. All TEQIP-II participating Institutions were a part of NASSCOM FSIT Master Training.

As a part of cascading of the project, the master trainers trained 30 in-house faculty in various foundational Life and Soft Skills during 26th and 30th December, 2013. At the completion of the Train the Trainer session, teachback was conducted for all the trainers. Accordingly the trainers were certified to carry forward the project to the students' level.

DEPARTMENT OF INFORMATION TECHNOLOGY

FACULTY DEVELOPMENT PROGRAMME

on

Advances in High Speed Networks

A two day Faculty Development Program(FDP) on "Advances in High Speed Networks", was organized by The Department of IT during 21-22, February 2014 under TEQIP – II. This FDP aims to provide opportunities to faculty members, research scholars and post graduate students to enrich their teaching skill and research in the field of High Speed Networks.

INAUGURAL SESSION:

The esteemed personalities present on the inauguration of the programme:

1. Dr. K. Ramani, Professor and Head of IT,SVEC.
2. Dr. L.V.Reddy, Professor and Head of IT,SVEC.
3. Dr. S.P Setty, Professor, CSE, Andhra University
4. Dr. A.Senguttuvan, Professor, CSE, SVEC.

Dr. K.Ramani, HOD of IT welcomed all the respected dignitaries and participants. Dr. S.P Setty Professor, AU. Appreciated the program organized by IT dept in his speech. Dr. A.Senguttuvan Professor, CSE, SVEC. also encouraged for such activities.



Dignitaries on the Dais during the Inaugural



Chief Guest Dr. S.P Setty, and other Dignitaries, lighting the lamp

TECHNICAL SESSIONS :

First Day (21/02/14) Session I:

Dr. S P Setty, Professor, Department of CSE, Andhra University, gave a detailed presentation on Introduction to Networked Communication, Goals of Cryptography, Symmetric Key Cryptography, Asymmetric Key Cryptography, Goals of Network Security, Security in Wired Networks, Security in Wireless Networks (Cellular Nets and MANETs), Security in Cognitive Networks. In this session participants were learned the importance of security in networks.



Dr. S.P Setty addressing the gathering.



The Participants from Various colleges

First Day (21/02/14) Session II:

Prof. Manikandan, Assistant Professor (Senior Grade), VIT, delivered lecture on, Frame Relay Networks, High-Speed LAN, Packet Scheduling Protocol for High Speed Networks, Congestion and Traffic Management TCP and ATM Congestion Control, Protocols for QOS support, Switched multi-megabit dual service (SMDS).



Prof. Manikandan addressing the gathering

Second Day (22/02/14) Session I:

Mr. Kumar Padmanabh, Ex-Forensics Scientist, Govt. of India. His presentation is on Digital Forensics – Integral Part of Information Security included Data Diddling, Dead Dropping, Guerrilla Mail, Anonymizer.com, Keylogger Software & Hardware, Stuxnet, Nitro Attacks, Ddos Attacks, Ghostnet, Cyber Defamation, Phishing, Suspicious Router, and Various Cyber Crimes.



Dr. Kumar Padmanabh delivering his lecture

Second Day (22/02/14) Session II:

Dr. Nakkeeran, HOD, Department of Electronics Engineering, School of Engineering & Technology, Pondicherry university, His lecture includes Optical fiber transmission, TCP/IP performance over optical networks, Fiber distributed data interface, Applications of high speed networks.



Dr. Nakkeeran, delivering lecture on recent trends in High Speed Networks research areas.

Vote of thanks was given by **Mr. Shaik. Munwar**, Asst Professor of IT. four of the faculty from outside college has given the feedback about the workshop and thanked the management, department and the organizer for arranging the workshop. Dr. K. Ramani distributed participation certificates to every participant and concluded the program.

DEPARTMENT OF INFORMATION TECHNOLOGY

FACULTY DEVELOPMENT PROGRAMME

The Department of IT organized an FDP on "**Advances in Service Oriented Architecture and Web Services - Issues and Challenges**", 1-2, March 2014 under TEQIP – II. The FDP program received an overwhelming response with more than 60 participants from various institutions approved by AICTE.

This FDP mainly focused on role of SOA in today's Enterprise Application Development, gain knowledge on web services, and develop skills in analyzing, designing & building applications of SOA.



Dr. G. Zayaraz address the gathering

FDP was inaugurated on 1st March, 2014 by Dr. G. Zayaraz, professor, Department of CSE, Pondicherry Engineering College along with Mr. Srinivasa Kongara, Lead-E&R, Infosys Ltd, Mysore, Dr. K. Ramani, HoD, Dept. of IT, SVEC and Dr. L. V. Reddy, professor of IT, SVEC.

On this Occasion, Dr. K. Ramani, HoD, Dept. of IT, SVEC welcomed all the dignitaries and delegates. In her welcome speech, she highlighted the importance and objectives of organizing this faculty development program.

In his inaugural speech, Dr. Zayaraz, Professor, Department of CSE, Pondicherry Engineering College, emphasized that teacher who is working in the area of Computer Science and Information Technology should update his/her knowledge.

At the end, the inaugural session was concluded with a vote of thanks given by Mr. G. Uma Mahesh, Asst. Professor, Dept. of IT, SVEC.

Dr. G. Zayaraz, Professor, Department of CSE, Pondicherry Engineering College having more than 23 years of teaching experience. He published 31 research papers in referred journals and 18 papers in national/international conferences and reviewer for so many journals. He is guiding 3 full time and 5 part-time PhD research scholars. He is an author of "**Quantitative**

Approaches for Evaluating Software Architectures: Frameworks and Models” published by VDM Verlag Dr. Muller.



Dr. G. ZAYARAZ delivering a lecture

He gave a detailed presentation on Evolution of distributed computing, principles and working of Service Oriented Architecture, working with CPN tool (high level Petri net tool), current projects on CPN tool, preparation of mathematical models, research issues and challenges.

Mr. Srinivas Kongara, Lead-E&R, Infosys Ltd, Mysore having more than 9 years of experience teaching/training and application development/project consulting in various computer science disciplines and specifically in Microsoft technologies. He was part of various academic workshops at university and national level, as a resource person since 2005 and participated in various IT corporate technical conferences, Microsoft Tech-days, GIDS, and Intel India software development.



Mr. Srinivas Kongara interacting with the participants in the Lab session

He demonstrated the implementation of SOA sample application (KMail using authentication service) using Microsoft ASP.NET web services and the same can be implemented

by participants in the lab session. He also gave presentation on Implementing SOA using Microsoft Windows Communication Foundation(WCF) – need of WCF, WCF model, binding techniques, service contracts, RESTful services using JSON.

Mr. Sandesh Jain, Senior Technical Officer, C-DAC, Hyderabad, having more than 9 years in R&D, Training, involved in project planning, coordination and implementation in C-DAC. He has published many papers in national and international journal. He filed patent on Algorithm design for efficient e-learning course management. He was nominated as Peer Reviewer for "3rd International Conference on Machine Learning and Computing (ICMLC), 2011" at Singapore, and nominated as Technical committee member and reviewer for "3rd International Conference on Mechanical and Electrical Technology (ICMET), 2011" at Dalian, China.



Mr. Sandesh Jain delivering the lecture

He explained Web services coordination and collaboration for achieving SOA, Web service orchestration, Web service Choreography and implementation of Web services Orchestration using WS-BPEL 2.0.

At the end of Faculty Development Programme, the certificates to participants are distributed by Mr. Sandesh Jain and Mr. Srinivas Kongara.



Distribution of Certificates to participants by Mr. Sandesh Jain and Mr. Srinivas Kongara

Report on Faculty Development Programme



“Big Data: Technologies & Challenges”

(23-24 December, 2013)

Faculty Development Program (FDP) was organized by Department of Information Technology, Sree Vidyanikethan Engineering College, A. Rangampet. The FDP was organized for two days i.e., December 23-24, 2013 under Technical Education Quality Improvement Programme-II. About 50 faculty members are actively participated and gained useful information from all the sessions.

Day 1: 23-12-2013 (Monday)

The faculty Development Program was inaugurated by **Mr. P. Surya**, CEO, ZettaMine Technologies, Hyderabad and **Dr. K.Ramani**, HOD of IT & Convener of the Programme, at 9:30 A.M.

Session 1:

Mr. P. Surya, CEO, ZettaMine Technologies, Hyderabad, from 10.00 AM – 11.30 AM, delivered an overview of Big Data, the context of Big Data. The participants interacted with resource person and clarified their doubts regarding real-life applications of Big Data.

Session 2:

Mr. P. Surya, CEO, ZettaMine Technologies, Hyderabad, has taken this session from 11.45 AM – 1.30 PM, delivered a lecture on Research challenges in Big Data and case studies on big data. The participants interacted with resource person and discussed about implementation problems they are facing in their academic & research work.

Session 3:

Mr. T. Pranabh Kumar, R&D Advisor, ZettaMine Technologies, Hyderabad, from 2:00 PM – 3.30 PM, demonstrated on Hadoop framework and its Ecosystem. The participants fascinated with Hadoop implementation and interacted with resource person and clarified their doubts regarding Hadoop components such as HBase and Mapreduce.

Session 4:

Mr. T. Pranabh Kumar, R&D Advisor, ZettaMine Technologies, Hyderabad, from 3:45 PM – 5.30 PM, delivered a lecture on Hadoop Architecture and its Use cases. The participants interacted with the resource person and their doubts on Hadoop architecture were clarified by him.

Day 2: 24-12-2013 (Tuesday)

Session 1:

Dr. Ch. Sudhakar, Associate Professor of CSE, National Institute of Technology, Warangal from 9:30 AM – 11.30 AM, demonstrated on MapReduce framework and Anatomy of a MapReduce Job. The participants interacted and clarified their doubts by the resource person.

Session 2:

Dr. Ch. Sudhakar, Associate Professor of CSE, National Institute of Technology, Warangal from 11.45 AM – 1.30 PM, Demonstrated all methods involved in Map Reduce Programming. The participants interacted with him to discuss about advanced methods used in Hadoop.

Session 3:

Dr.P.Radha Krishna, Principal Research Scientist, Infosys, Hyderabad, from 2:00 PM – 3.45 PM, delivered a lecture on dimensions and challenges of Big Data. The participants interacted with him to discuss about real time applications on Big Data.

Session 4:

Dr.P.Radha Krishna, Principal Research Scientist, Infosys, Hyderabad, from 4:00 PM – 5.30 PM, delivered a lecture on cloud Versus Big Data & NoSQL Databases.



Fig. 1: **Dr. K. Ramani**, Professor & Head of IT, SVEC inaugurating the function



Fig. 2: **Mr. P. Surya**, CEO, ZettaMine Tech., Hyderabad addressing the gathering.



Fig. 3: **Mr. T. Pranabh Kumar**, R&D Advisor, ZettaMine Tech., demonstrating Hadoop Framework.



Fig. 4: **Dr. Ch. Sudhakar**, Associate Professor of CSE, NITW demonstrating MapReduce Programming.



Fig. 5: **Dr. P. Radha Krishna**, Principal Research Scientist, Infosys delivering a lecture on “Big Data Challenges”

Report on Faculty Development Programme



"Data Mining Tools & Techniques"

(October 03-04, 2013)

Faculty Development Program (FDP) was organized by Department of Information Technology, Sree Vidyanikethan Engineering College, A. Rangampet. The FDP was organized for 2 days i.e., October 03-04, 2013.

Day 1: 03-10-2013

The faculty Development Program was inaugurated by Dr. K. Subrahmanyam, Professor of CSE, K.L. University, Dr. V. V. Rama Prasad, HOD of CSE and Convener of the Programme, Dr. K. Ramani, HOD of IT at 9:30 A.M.

Session 1:

Dr. K. Subrahmanyam, Professor of CSE, K.L. University from 10.00 AM - 11.30 AM, delivered on overview of data mining, Building Intelligent Systems through Machine Learning. The participants interacted with resource person and clarified their doubts.

Session 2:

Dr. K. Subrahmanyam, Professor of CSE, K.L. University has taken this session from 11.45 AM - 1.00 PM, delivered a lecture on Research challenges in Data Mining. The participants interacted with resource person and discussed about implementation problems they are facing in their research work.

Session 3:

Mr. O. Obulesu, Asst. Professor of IT, Sree Vidyanikethan Engineering College, from 2:15 PM - 3.30 PM, demonstrated on WEKA Tool with Preprocessing Features. The participants executed all the features in WEKA tool and interacted with resource person and clarified their doubts.

Session 4:

Mr. G.M. Chanakya, Asst. Professor of IT, Sree Vidyanikethan Engineering College, from 3:45 PM - 4.45 PM, Handled the lab sessions on Association, Classification and Clustering in WEKA Tool. The participants executed all the features in WEKA tool with the help of resource persons.

Day 2: 04-10-2013**Session 1:**

Mr. A. Srinivasulu, Assoc. Professor of IT, Sree Vidyanikethan Engineering College, from 9:30 AM - 11.30 AM, demonstrated on Rapid Miner with Preprocessing Operator Features. The participants interacted with resource person and clarified their doubts.

Session 2:

Mr. A. Srinivasulu, Assoc. Professor of IT, Sree Vidyanikethan Engineering College, from 11.45 AM - 1.00 PM, Demonstrated all operators including Association, classification, and clustering in Rapid Miner. The participants executed all the operators in lab sessions and with the help of resource persons.

Session 3:

Mr. O. Obulesu, Asst. Professor of IT, Sree Vidyanikethan Engineering College, from 2:00 PM - 3.30 PM, demonstrated on Basics of R Tool such as variables, vectors and Data frames. The participants executed all the features in R tool.

Session 4:

Mr. O. Obulesu, Asst. Professor of IT, Sree Vidyanikethan Engineering College, from 3:30 PM - 4.30 PM, demonstrated on Data frames and built in functions applied on the datasets. All the participants created some static and dynamic datasets and executed built in measures on the datasets.

Conclusion

The department of Information Technology, SVEC, conducted a Two Day FDP on "**Data Mining Tools & Techniques**", 03-04 October 2013, under Technical Education Quality Improvement Program-II. About 50 faculty members participated in this event. The participants actively involved and gained useful information from all the sessions.



Fig. 1: Dr. K. Subramanyam, Professor of CSE, KLU inaugurating the function



Fig. 2: Dr. K. Subramanyam, Professor of CSE, KLU addressing the gathering.



Fig. 3: Mr. A. Srinivasulu, Associate Professor, SVEC, demonstrating Rapid Minor Tool.

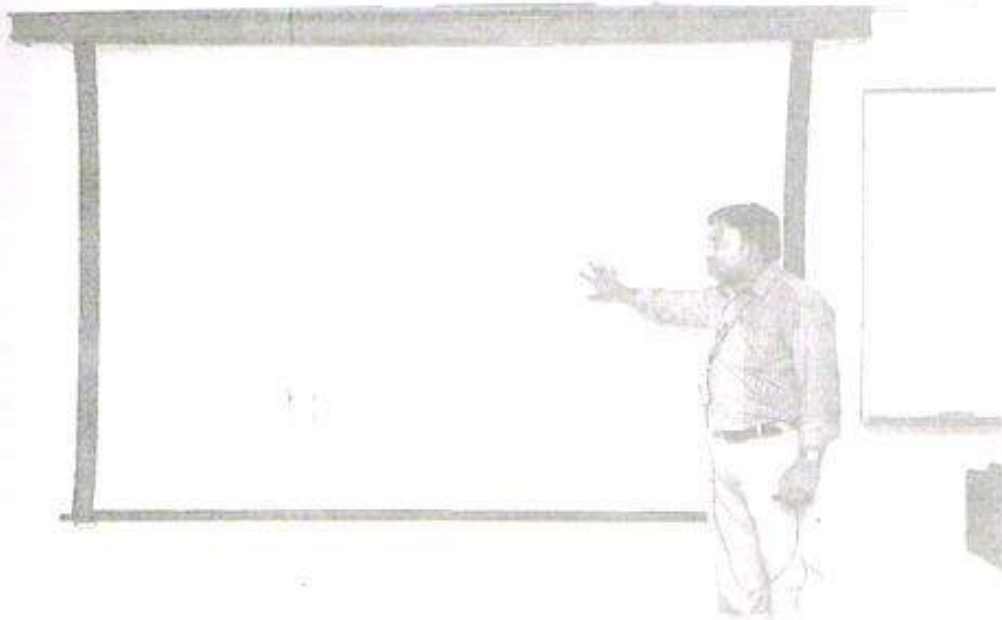


Fig. 4: Mr. O. Obulesu, Assistant Professor, SVEC, demonstrating R Tool.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102

Department of Information Technology

A TWO DAY Faculty Development Programme

On

“MOBILE COMPUTING AND SECURITY ISSUES”

A Two day Faculty Development Programme (FDP) on **“MOBILE COMPUTING AND SECURITY ISSUES”** was organized by Department of IT under TEQIP-II on November 08-09, 2013.

During the inauguration of the programme **Dr. B. Sathish Babu**, Professor of CSE, SIT, Tumkur, **Dr. K. Ramani**, HOD, IT, **Dr. Md. Shafi**, Professor & Head, Department of MCA, SVEC spoke on the need for up gradation of subject knowledge and skills to become a good teacher and also the need to exposure the faculty in the recent trends in mobile computing. About **50** faculty members from different colleges participated in the programme.

Dr. B. Sathish Babu, Professor of CSE, SIT, Tumkur, delivered a talk on Current Trends in Mobile Computing and Mobile Computing Security Issues and Challenges.

Mr. B. Adithya, software consultant for Manvish E.Tech Pvt. Ltd, Bangalore explained about various Trust Based Security techniques for Mobile Computing and How to Design your own Simulator for mobile Networks.

Dr. Salman Abdul Moiz, Associate Professor of SCIS, University of Hyderabad, Hyderabad, delivered a talk on various Concurrency control and Replication Strategies in Mobile Environments.



Inauguration lighting the lamp by Dignitaries



Inauguration - Addressing the Participants by Dr. K. Ramani, Convener, Department of IT, SVEC.



Lecture by Dr. B. Sathish Babu, Professor of CSE, SIT, Tumkur



Lecture by Mr. B. Adithya, software consultant for Manvish E.Tech Pvt. Ltd, Bangalore



Lecture by Dr. Salman Abdul Moiz, Associate Professor of SCIS, University of Hyderabad, Hyderabad



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102

Department of Information Technology

Two-Day Staff Development Programme
on

“Advanced DeskTop Publishing”

(October 28-29, 2013)

The department of Information Technology, SVEC, conducted a Two Day Staff Training Programme on **“Advanced DeskTop Publishing”** under Technical Education Quality Improvement Program-II. **Mr. Y. Narasimha Rao**, Sr. Digital Artist and Trainer, Inspire Digital Media, Hyderabad delivered a talk on “Advanced graphics designing essentials in Adobe Photoshop”. **Mr. U. Gopi**, MAAC Solutions, Hyderabad delivered a talk on “Advanced graphics designing essentials in CorelDraw”. About 66 staff members of SVEC participated in this two days STP programme.

Dr. K. Ramani, HOD welcomed the participants. Mr. P. Bhasha, Programme Coordinator presented the vote of thanks.



Fig. 1: Mr. U. Gopi, Sr. Digital Artist and Trainer, Hyderabad interacting with the participants.



Fig. 2: Mr. Y. Narasimha Rao, Sr. Digital Artist and Trainer, Hyderabad interacting with the participants.

**A Report on
A Two Day National Level Workshop on
"MATLAB BASED ADVANCED OPTIMIZATION
TECHNIQUES"**

7th - 08th November, 2013



Inaugural function of MATLAB based Advanced Optimization Techniques held on
Nov. 7, 2013.

Session I:

Mr. S.Prasanth Achuthamenon of P S G College of Technology handled the session on Particle Swarm Optimization (PSO). He gave a very lucid presentation covering topics like what is optimization?, overview of metaheuristics, what is particle swarm optimization?, types of PSO and PSO applications. He discussed the

three primary variants of PSO and solved a simple problem manually to explain how PSO works. It was followed by hands on session in MATLAB.



Session II:

Dr. K.C.Varaprasad of Sree Vidyanikethan Engineering College handled the session on Simulated Annealing. His elaborate presentation included Definition of Optimization, Local search algorithms, Hill-Climbing, Problems with Hill Climbing, Definition of annealing, Simulated annealing, Physical annealing Vs. Optimization. He explained how to solve LP problems using MATLAB software. This was followed by hands on session in MATLAB.



Session III:

Dr. G. Paul Raj of J J College of Engineering handled the session on Non-conventional Optimization techniques for Engineering Applications. His presentation included discussion on Types of optimization techniques, Problems with conventional techniques, Non-conventional techniques, Genetic Algorithm, Simulated annealing algorithm, Engineering Applications. This was followed by hands on session: GENETIC ALGORITHM USING MATLAB 7.0b with clear explanation of GA execution steps.



Session IV:

Dr. S.Devaprasad of Vardhamaan Engineering College handled the session on Multi objective optimization using evolutionary algorithms. His presentation included discussion on need for multiobjective optimization, lessons from mother nature, biomimicry and other ideas taken from nature, evolutionary algorithms- advantages and disadvantages and finally explained his real work – Multiobjective Flow shop scheduling: A genetic algorithmic approach.



Valedictory function



Valedictory function of MATLAB based Advanced Optimization Techniques held on Nov. 8, 2013.



Group Photo of participants



Two-day Staff Training Program on "ADVANCED IC ENGINES, DISMANTLING, ASSEMBLY AND MAINTENANCE"

24th - 25th November, 2013

The Two-day Two Day Staff Training Programme on "**Advanced IC Engines, Dismantling, Assembly and Maintenance**" was inaugurated by the chief Guest Mr. **JIBIN SASIDHARAN**, Area Service Manager, Tata Motors Ltd , Tirupati on 24-11-2013 at 10.00 AM. A keynote speech was delivered by the chief Guest on the topic of the Staff Training Programme. A Total of 46 external participants and 33 internal participants registered for the program.

During the First day (24-11-2013) of the program, first session in the morning was delivered by **S. Jaffar Hussain**, Divisional Manager, GMMCO Limited, Chennai. He delivered lecturer on various issues related to Condition monitoring and fault diagnosis of IC engines

The next session in the morning and other session in the afternoon was delivered by **Dr. C.Ramesh Kumar**, Professor, VIT University, Vellore on Advanced Technologies in IC engines and issues related I.C Engines. He provided valuable information to Labtechnicians. The last session of the first day was delivered by Mr. Balaji Ganeshan, Quality Assurance Lead Engineer, ESI Software India Pvt Ltd, Bangalore on Advanced Tecnologies in IC engines and Simulation studies.

In the morning sessions of the Secomd day (25-11-2013) of the program, **Mr. Prasad**, Floor Manager, Tata Motors Tirupati, was given hands on experiamce on Dismantling & Assembly of IC Engine and its Maintenance and the afternoon sessions were taken by Mr. Jaswanth Kumar Service Engineer, IND LABS Bangalore. He demonstrated all the engines in Thermal Engineering Lab and explained the servicing and maintenance part of the engines.

Outcomes:

- Enrich the knowledge of the LabTechnicians in the area of I.C Engines.
- The Participant will apply the knowledge in scervicing and maintance of I.C Engine in Thermal Engineering Laborotary.

- The participant will be able to identify the fault in the engine and able to rectify it.
- The participant will be able to guide the students in conducting the experiments on the engine.
- Program benefits all the lab technicians to maintain the engine lab smoothly.



Inaugural Session being attended by Mr. **JIBIN SASIDHARAN**, Area Service Manager, Tata Motors Ltd and other dignitaries



S. Jaffar Hussain, Divisional Manager, GMMCO Limited, Chennai delivering the session



Dr. C.Ramesh Kumar, Professor, VIT University, Vellore delivering the session



Mr. Balaji Ganeshan, Quality Assurance Lead Engineer, ESI Software India Pvt Ltd, Bangalore in his session



Mr. Prasad, Floor Manager, Tata Motors Tirupati in his session



Mr. Jaswanth Kumar Service Engineer, IND LABS Bangalore in his session



Valedictory Session being attended by the dignitaries



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar, Tirupati – 517 102, A.P.
DEPARTMENT OF MECHANICAL ENGINEERING

**Two-day National level workshop on
“RECENT TRENDS IN TRIBOLOGY”
29th – 30th November, 2013**

Two Day Staff Training Programme on “**Recent Trends in Tribology**” was inaugurated by the chief Guest **Dr.V.Pandurangadu**, Professor in Mechanical Engineering, JNTUA college of Engineering, Ananthapuramu on **29-11-2013 at 10.00 AM**. A keynote speech was delivered by the Chief Guest on “Tribology of Industrial components”. A total of 23 external participants and 33 internal participants were registered for the program. In the first session on 29-11-2013, **Dr. R. Gnana Moorthy**, Director (D & M), IIIT, Kancheepuram delivered a lecturer on Surface Engineering and recent challenges.

The next session on 29-11-2013 was handled by **Dr. C. Vamsi Krishna Balla**, Principal Scientist, CSIR, Kolkata. He discussed various topics related to Bio-Tribology and characterization of surfaces. The last session of the first day was delivered by **Dr.V.Pandurangadu**, Professor in Mechanical Engineering, JNTUA College of Engineering, Ananthapuramu on “methods of reducing friction in various engines”

In the first session of second day on 30-11-2013, **Mr. B.K.C.Ganesh**, Associate Professor, Department of Mechanical Engineering, SVEC, delivered a talk on “Various surface treatments and coating on Titanium alloys” and the afternoon session was delivered by **Dr.Geetha Manivasagam**, Professor, VIT University Vellore on “Tribological issues related to orthopedic implants”. The final session was delivered by **Dr. Srinivasarao Bakshi**, Department of Material Science and Metallurgy, IIT Madras on “Issues related to Nano Tribology”.



Dr. P.C. Krishnamachary, Principal, SVEC delivering the inaugural address



Dr. R. Gnana Moorthy, Director (D & M), IIIT, Kancheepuram delivering the inaugural address



Dr. Vamsi Krishna Balla, Principal Scientist, CSIR, Kolkata discussing the importance of Bio-Tribology



Guest of Honour Dr.V.Pandurangadu, Professor in Mechanical Engineering, JNTUA, Ananthapur addressing the participants



Dr. Geetha Manivasagam, Professor, VIT University Vellore, delivering a session on Tribological issues.



Dr. Srinivasarao Bakshi, Department of Material Science and Metallurgy, IITM, Chennai, discussing about Nano Tribology



Valedictory Session

A Two-Day Staff Training Programme on “Machine Shop Practices”

4th - 5th April, 2014

(Under TEQIP-II)

The Department of Mechanical Engineering, Sree Vidyanikethan Engineering College (Autonomous) organized a Two Day Staff Training Program on “Machine Shop Practices” on April 04th and 05th, 2014 under the aegis of TEQIP –II. The programme received an overwhelming response from 50 participants from various Engineering colleges across the width and breadth of Andhra Pradesh.

A brief report for each of the session during the Staff Training Programme is given below with the conclusion at the end. The programme started with inauguration.



The Chief Guest, Dr.D.V.S.Bhagavanulu, Director, SVEC, Addressed the gathering at the inaugural function of Two-Day Staff Training program on “Machine Shop Practices” followed by the Convener, Staff Training program.



The Convener, Dr.K.C.Varaprasad, Addressed the gathering at the inaugural function of Two-Day Staff Training program on “Machine Shop Practices”.

Dr.K.C.Varaprasad, Professor & Head, Dept. of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati delivered a talk on Machine Shop Practices.



Dr.K.C.Varaprasad started his discussion with very basic idea of machine tools and further brought out the significance of machine shop practices to the participants through illustrative examples.

The second speaker of the day Sri.M.Maruthi Prasad delivered a talk on Machine shop tools and their importance. He also emphasized on the method of utilizing the machine shop tools. Practical approaches were taught during his lecture and also the concepts of measuring the dimensions of the jobs were highlighted.



In the afternoon session of the programme, Sri.G.D.Jacob, Senior Instructor, DONBOSCO ITI Kadapa, demonstrated the method of machining the components on the Lathe machine. During the session, the participants were given Hands-on-Training on various operations on a lathe. After the demonstration, participants performed the job on their own. He shared a few very important aspects to be considered while machining the jobs on different machine tools.



Sri.G.D.Jacob, Senior Instructor, DONBOSCO ITI Kadapa, demonstrating the method of operating the lathe machine and illustrating the job sequence to the participants.



On the second day of the programme, Sri.M.Karuna Kumar, Assistant Engineer, APGENCO, Hyderabad, delivered a lecture on Drill, Taps, Reamers and Counter sinks. He illustrated the practical problems encountered during drilling, tapping and reaming processes.

Mr.P.Bhanu Prakash Assistant Professor, Dept of Mechanical Engineering, Sree Vidyanikethan Engineering College delivered a lecture on Shaper, Planner and Slotting machines. He also experimentally showed the method of fixing the jobs, performing the operations and also setting the cutting tools to the machine tools.





Sri.M.Karuna Kumar, Assistant Engineer, APGENCO, Hyderabad training the participants in operating the cylindrical grinder.



Participants being trained on various machine tools



A Two Day National Workshop on
“COMPUTATIONAL FLUID DYNAMICS (CFD)”
(Under TEQIP-II)
11th - 12th April 2014

Department of Mechanical Engineering organised a Two Day National Level Workshop on “**COMPUTATIONAL FLUID DYNAMICS**” and was inaugurated by the Chief Guest **Dr. R THUNDIL KARUPPA RAJ**, Professor & Division Chair of Energy Division in the School of Mechanical and Building Sciences, VIT University, Vellore on 11-04-2014 at 10.00 AM. A total of 21 external participants and 37 internal participants registered for the program.

In the Morning session on 11-04-2014, **Dr. R THUNDIL KARUPPA RAJ**, Professor & Division Chair of Energy Division in the School of Mechanical and Building Sciences, VIT University, Vellore delivered lecturer on various issues related CFD and further conveyed the significance of CFD tools to the participants through illustrative examples. He Discussed CFD TOOLS and their importance. He also emphasized on the method of utilizing the CFD tools, Fundamentals of CFD, Governing equations, Discretization Schemes, Finite Difference Method.

In the afternoon session on 11-04-2014, **Dr. R THUNDIL KARUPPA RAJ** delivered the significance of finite volume method to the participants through ICEMCFD. During the session, the participants were given Hands-on-Training on various operations on ICEMCFD. After the demonstration, participants performed the job on their own. He shared few very significant aspects to be considered while meshing the jobs on different Meshing tools

In the morning, first session on 12-04-2014, **Dr. Kulasekharan Narasingamurthi**, Professor & Head, Mechanical Engineering Department, Saveetha Engineering College, Chennai, delivered lecturer on various issues related to Numerical Simulation of conjugate heat transfer in a shell and tube heat exchanger, turbine blade cooling using FLUENT and the next sessions was given hands on experience on Numerical Simulation of multiphase flows –

different case studies like cyclone separator, Diesel Fuel Injectors using FLUENT code by **Dr. Kulasekharan Narasingamurthi**.

In the Afternoon, First session on 12-04-2014, **Balaji R**, CFD specialist, FLSmidth Private Limited, Chennai, delivered lecturer on various issues related to Numerical Simulation of heat and fluid flow in turbo-machinery components using ANSYS CFX and the next sessions was given hands on experience on Numerical Simulation of Compressible flows in a supersonic convergent divergent nozzle by ANSYS CFX.



Dignitaries on the Dais during Inaugural Session



Dr. R THUNDIL KARUPPA RAJ, Professor & Division Chair of Energy Division in the School of Mechanical and Building Sciences, VIT University, Vellore delivering the Lecture.



Dr. R THUNDIL KARUPPA RAJ, Professor & Division Chair of Energy Division in the School of Mechanical and Building Sciences, VIT University, Vellore in his session in the Lab.



Dr. Kulasekharan Narasingamurthi, Professor & Head, Mechanical Engineering Department, Saveetha Engineering College, Chennai delivering the Lecture.



Dr. Kulasekharan Narasingamurthi, Professor & Head, Mechanical Engineering Department, Saveetha Engineering College, Chennai in his session in the Lab.



Balaji R, CFD Specialist, FLSmith Private Limited, Chennai delivering the Lecture.



Balaji R, CFD Specialist, FLSmidth Private Limited, Chennai in his session in the Lab.



Valedictory Session



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI – 517502

DEPARTMENT OF CIVIL ENGINEERING

AICTE Sponsored Two Week Faculty Development program
“Environmental Pollution – Causes, Effects and Control Strategies”
08-20 June 2015

Convener: Dr. D.V.S.Bhagavanulu

REPORT

The Department of Civil Engineering organized an AICTE sponsored two weeks faculty development programme on “**Environmental pollution – causes, effects and control strategies**” from 08th to 20th June, 2015 at the **Seminar Hall of Civil Engineering Block** in Sree Vidyanikethan Engineering College. The main objectives of the programme are to review key concepts in environmental pollution and to discuss strategies used to control and manage pollution. Resources persons delivered their lectures in this FDP programme are from industries, Academic institutions and National Research Institutes. The participants are from Karnataka, Maharastra and other engineering colleges of Andhra Pradesh

The twelve days programme encompass of 35 lecture session and field visits. The resources persons have created awareness about the causes and effects of pollution, discussed contemporary problems of environmental pollution in a longer-term temporal perspective. The participants have gained knowledge to teach effectively in the areas of Environmental engineering and Environmental studies. The programme became a platform to discuss and debate several issues related to Environmental pollution – causes, effects and control strategies. Some of the latest topics like green technology, E-waste and carbon sequestrations were also discussed by

the resources persons during this programme. Some of the resource persons had given lectures on the current global issues like climatic changes, and pollution of air, water and land.

All the participants had a visit to National Atmospheric Research Laboratory, Water treatment plant in Tirumala and Kalyani Dam near Rangampet. During these visits participants had an exposure to the latest equipments and interacted with the engineers and scientists working at the visited places.



Day 1: Inauguration of Faculty Development Programme

Day 1: Resource Person: Dr. J.Karthikeyan



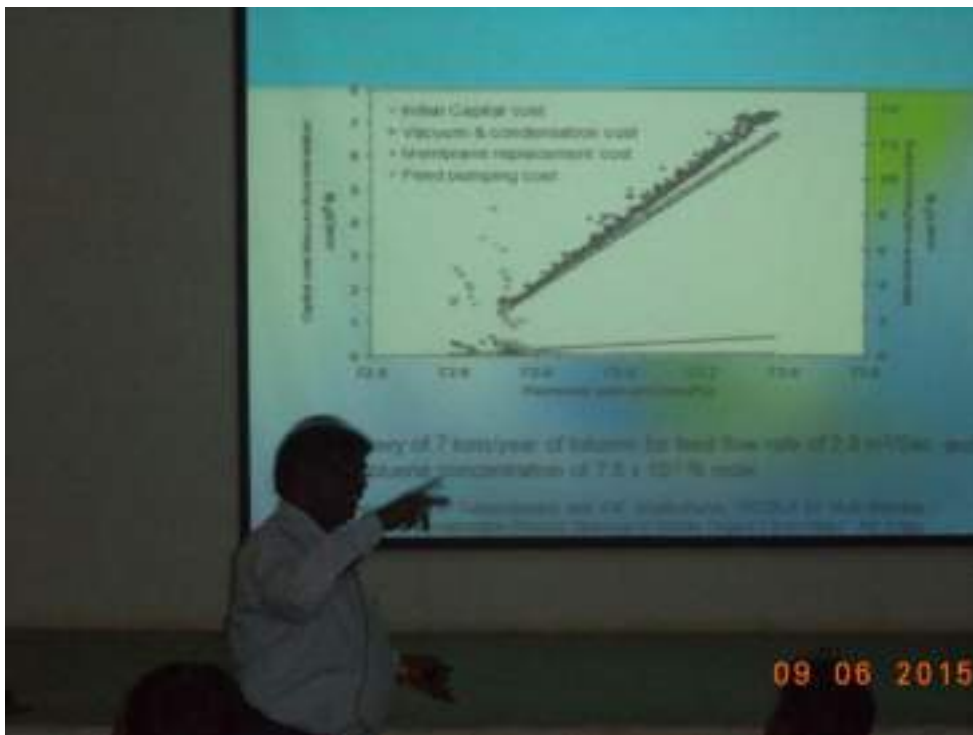
Day 2: Resource Person: Dr. Balamurugan



Day 2: Resource Person: Dr. S.Srinivasan



Day 3: Resource Person: Dr. Venkata Satyanarayana



Day 3: Resource Person: Dr. A.N. Brijesh Nair



Day 3: Resource Person: Dr. A.N. Brijesh Nair



Day 4: Resource Person: Dr. Saravana Kumar



Day 4: Resource Person: Dr. Uma Shankar



Day 5: Resource Person: Dr. D.V.S. Bhagavanulu



Day 5: Resource Person: Prof. D.C.Poul



Day 6: Resource Person: Dr. D. Srinivasulu



Day 6: Resource Person: Mr. D. Srinivasa Murthy



Day 8: Resource Person: Dr. K. Nagendra Prasad



Day 8: Resource Person: Dr. V.V.S. Gurunatha Rao



Day 9: Resource Person: Dr. V.V.S. Gurunatha Rao



Day 9: Resource Person: Mr. S.Balagurunathan



Day 9: Visit to Water Treatment Plant, Tirumala



Day 11: Resource Person: Prof. G.P.Ganapathy



Day 11: Visit to Kalyani Dam



Day 12: Resource Person: Dr.M.Srimurali



Day 12: Resource Person: Prof. K.Mallikarjuna Rao



Day 13: Resource Person: Dr. Venkata Ratnam



Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME

Faculty Development Programme on “**Recent Trends & Research Perspective in Data warehousing and Mining**” under TEQIP-II is organized by the Dept. of CSE for faculty members of various institutions in EDC Cell during **7-8 November, 2014**. **Dr. K.P. Supreethi** Dept. of CSE, JNTUH College of Engineering, Hyderabad, **Dr. K.F. Bharathi**, Dept. of CSE, JNTUH College of Engineering, Anantapur, **Mr.P. Ram Mohanreddy** Project Delivery Manager, TCS, Bangalore and **Mr.K. VeeraChander** Solution Architect, TCS, Bangalore are the resource persons.

Dr. K.P. Supreethi discussed on Online Analytic Process and Datacube Computations. **Dr. K.F. Bharathi** presented a lecture on Functionality of Text Mining and Web Mining. **Mr.P. Ram Mohanreddy** shared his views and practical experience on Business Intelligence, Data Warehousing concepts, Big data and Hyperion. **Mr.K. VeeraChander** discussed about Implementation of Tera Data and Informatica concepts. The sessions were interactive, knowledgeable and more practical.



Mr.P. Ram Mohanreddy Project Delivery Manager, TCS, Bangalore delivering the lecture



Dr. K.P. Supreethi Dept. of CSE, JNTUH College of Engineering, Hyderabad delivering the lecture

A Two Week National Level Faculty Development Program
on
**" Emerging Challenges And Research perspectives In Network Security
And Intrusion Detection Systems "**
04-16 May, 2015

Department of CSE organized a Two Week National Level Faculty Development Program on " Emerging Challenges And Research perspectives In Network Security And Intrusion Detection Systems" during 04 - 16 May, 2015. The Program was inaugurated by **Dr. Noor Mohammad Sk, Assistant Professor of CSE, IIITD & M.**

On the first week (04-05-2015 to 09-05-2015) of the program **Dr. Noor Mohammad Sk, Assistant Professor of CSE, IIITD & M** explained about Introduction to Network Security, Classes of Security Attacks, Vulnerabilities and Threats, Critical infrastructure protection and **Dr. R. Tamil Chelvan Kancheepuram, Performance Test Manager, Siemens, Chennai** explained about Network Security Monitoring, Attack Response and countermeasures, Network Incident Response and **Dr. C.Shoba Bindu , Associate Professor of CSE, JNTUA College of Engineering, Anantapuram** explained about Malware Detection, Survivability and Self Protection and Traffic Threat Assessment.

On the second Week (11-05-2015) of the program **Dr. Noor Mohammad Sk, Assistant Professor of CSE, IIITD & M** explained about Network Forensics, Network Behavior based Anomaly Detectors, Types of computer forensics technologies, Data analysis and validation and **Dr. R. Tamil Chelvan Kancheepuram, Performance Test Manager, Siemens, Chennai** explained about Malware Assessment and vulnerability analysis, Cyber defense strategy and **Dr. C.Shoba Bindu , Associate Professor of CSE, JNTUA College of Engineering, Anantapuram** explained about Intrusion Prevention Overview, Intrusion detection data analysis for risk assessment and Processing crime and Incident Scenes. All the FDP Sessions were highly interactive and were quite interesting.

attack detection and defense

- Faculty can understand and analysed the components of intrusion detection systems to accomplish the goals of intrusion detection.
- Faculty are Motivated to identify research problems in network security and other relevant areas.



Department of Electrical & Electronics Engineering
Sree Vidyanikethan Engineering College

In Collaboration with



All India Council for Technical Education

Report

On

**A Two Week AICTE Sponsored National level
Faculty Development Program**

On

**Advances in Power systems Operation,
Protection & Control**

(15 -27, June, 2015)

The two week AICTE Sponsored national level faculty development program on “Advances in Power systems Operation, Protection & Control” was organized by the Department of Electrical & Electronics Engineering, Sree Vidyanikethan Engineering College from 15th June to 27th June, 2015. The FDP programme received an overwhelming response with 60 participants from various states like Andhra Pradesh, Telangana, Tamil nadu and Karnataka. The FDP aims to provide opportunities to faculty members, and research scholars to enrich their teaching skill and research in the field of power systems. The Programme also planned to develop the knowledge of participants for simulation with advanced softwares in the field of Power systems engineering for inculcating learning values in students.

The two week AICTE Sponsored national level faculty development program was inaugurated by the following eminent personalities on 15th June, 2015.

1. Prof.T.Gopalarao, Special officer, Sree Vidyanikethan Educational trust.
2. Dr.P.C.Krishnamachary, Principal, Sree Vidyanikethan Engineering College.
3. Dr.D.V.S.Bhagavanulu, Director, Sree Vidyanikethan Engineering College.
4. Er.Vikram, Divisional Engineer, AP Transco, Tirupati.





Dr.T.Nageswara Prasad, Coordinator of the FDP welcomed all the dignitaries and participants. In the welcome speech, Prof. S.Gopala Rao, Special officer highlighted the objectives of the faculty development program and requested the participants to disseminate the knowledge gained in such type of programs to their students. Dr.P.C.Krishnamachary, Principal and Dr.D.V.S.Bhagavanulu, Director of Sree Vidyanikethan Engineering College appreciated the Department of EEE for organizing such a program and welcomed all the enthusiastic participants. The chief guest of the inaugural program Er.K.Vikram, Divisional Engineer, AP Transco emphasized the benefits of such kind of ingenious activity. He accentuated the need of supplying electric power to consumers with good quality.

Technical Sessions:

15-06-2015



Mr.K.Ekambaram, Engineer from POWERGRID, Bangalore has delivered a lecture on **Indian power scenario & Real time operation of Indian Grid.**



Er.Chalpathi, DE, AP Transco has delivered a lecture on **Integration of solar power to Electric Grid** on afternoon.



A field visit was arranged to the solar plant which is located at Nagaiahgari Palli to explore the practical aspects in the construction and maintenance of the solar power plants on second session of after noon.

16-06-2015



Dr.E.Chandira sekaran, CIT, Coimbatore has delivered a series of lectures on **Energy auditing and management & Power quality issues**. He also expressed his consent to guide the participants to initiate consultancy services in their respective colleges.

17-06-2015



Dr.B.Kalyan Kumar and Dr.Sriram Srinivas, Associate Professors from IITM, Chennai have delivered lectures on **Modeling and Analysis of Grid Connected wind Generation systems** and **Power Electronics for Power systems** respectively. In these sessions the participants were taught the fundamentals and advances in Wind power systems as well as some significant applications of power electronics in the field of Power systems engineering.

18-06-2015



Dr.P.Ramana Reddy, Visiting Professor, SVEC has delivered a lecture on **Power systems Security**. The participants could learn the concepts of security assessment in power systems and contingency analysis.



Dr.T.Gowri Manohar, Associate Professor, SV University college of Engineering, Tirupati, has delivered a lecture on **Restructuring of Power Systems**.

19-06-2015



Dr.K.Vaisakh, Professor, EEE, Andhra University has delivered series of lectures on **Novel algorithms in power systems** like Shuffled frog leaping algorithm etc.

20-06-2015



Prof.R.Gnanadas, from Pondicherry Engineering College has delivered a series of lectures on **Transmission and Distribution scenario in Smart grid, Operation of Indian power exchange, functions of Smart meters and Smart grid pilot project in Puducherry.**

22-06-2015



A field visit was arranged by the organizers to all the participants to the nearest power grid centre located at chittoor. All the participants were happy with this informative field visit.

23-06-2015



Dr. M. Balasubramayam, Divisional Engineer, AP Transco, has delivered a lecture on **load dispatch and advanced protection schemes in power systems.**



Dr.S.Farooq, Associate Professor, EEE, SVEC has delivered a lecture on **Genetic algorithms and its applications in power systems.**

24-06-2015



Dr.N.M.G.Kumar, Professor, EEE, SVEC has delivered a lecture on **Reliability Evaluation of Electrical Transmission Systems.**



Dr.T.Nageswara Prasad, Professor &Head, EEE, SVEC has delivered a lecture on **Applications of PSO and Firefly algorithms in Electrical Engineering.**

25-06-2015



Dr.P.Umapathi Reddy has delivered a lecture on **Certain loss minimization techniques in unbalanced radial distribution systems by using PSO techniques.**



Prof.M.S.Sujatha, Professor, SVEC, EEE has delivered a lecture on **Neural Networks and its applications in Power systems.**



Mr.S.Hemachandra, Associate Professor, EEE, SVEC has delivered a lecture on **Fuzzy logic and its applications in Power systems.**



Dr.R.V.Amarnath, Professor&Head, Mahaveer Engineering College, Hyderabad, an enthusiastic participant of the program has delivered a lecture on **Design and development of cluster algorithms for power system problems.**

26-07-2015

Prof.N.Ammasai Gounden, Professor in EEE, NIT, Trichy has delivered a series of lectures on “ **Importance of Renewable Energy Sources for Distributed Generation, Wind Electric Generator for DC Load/Grid and its control and Hybrid Distributed Generator and its control aspects.**”



27-06-2015

Dr.V.Sankarnarayanan, Associate Professor, has delivered a series of lectures on “Components in **Micro Grid, Architectures of Micro Grid, Control aspects of Micro Grid and DER Controls**”.



Valedictory Function

The honorable personalities present in this occasion were Prof. Ammasai Gounden, NIT,Trichy and Dr.V.Sankarnarayanan, NIT,Trichy. The Head of the Department of EEE, Dr. T.Nageswara Prasad summarized the program. All the personalities appreciated the Department for organizing the FDP. The certificates and course material were distributed to all the participants. Finally the participants were asked to come on the dice and share their experience and learning of the whole program. The program was ended with vote of thanks by Mr.S.Hemachandra, Associate Professor in EEE & Co-Coordinator of the FDP.



Prof.D.Anil Kumar, Participant from Telangana has expressed his gratitude to the organizers for providing content rich sessions.



Mr.P.VinodKumar, Assistant Professor, EEE, G.Pullaiah College of Engineering &Technology, Kurnool at the feedback session.

The following feedback was received from the participants:

1. 96% of the participants felt that the delivery and presentation of the resource persons were good.
2. 90% of the participants felt that the FDP was coordinated very well.
3. Participants felt that such FDP should be carried for other subjects in the field of electrical engineering.
4. Participants felt that the boarding and lodging facilities were highly satisfactory.



Outcomes:

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity. The content knowledge of the participants in the respective domains is updated. The participants were also given some simulation exercises regarding the contents of the program. Last but not the least when the house was open for questions the participants were keen to ask and with the same level of enthusiasm they were justifiably answered by all the expert speakers. This workshop has not only helped the participants in their curriculum but has also helped them develop their skills and knowledge.

Group Photo-APSOPC-2015



Press Note clippings

'అద్వాన్సెస్ పవర్ సిస్టమ్

అపరేషన్ ప్రారంభం

చండ్రగిరి: మండలంలోని ఎ.రంగంపేట సాయి నాథ్ నగర్లో ఉన్న శ్రీవిద్యానికేతన్ విద్యాసంస్థల్లోని ఇంజనీరింగ్ కళాశాలలో శ్రీపుల్ఈ ఆధ్వర్యంలో 'అద్వాన్సెస్ ఇన్ పవర్ సిస్టమ్ అపరేషన్' అనే అంశంపై ఏర్పాటు చేసిన సదస్సు సోమవారం ఘనంగా ప్రారంభమైంది. ఈ సదస్సులో ఏపీ ట్రాన్స్కో డివిజనల్ ఇంజనీర్ ముఖ్య అతిథిగా పాల్గొని స్వాగతోపన్యాసం చేశారు. స్పెషల్ ఆఫీసర్ గోపాలరావు, డైరెక్టర్ డాక్టర్ డీవిఎస్ భగవాన్లు, కృష్ణమాచారి, ట్రినిటీపాల్ సుదర్శనకుమార్ పాల్గొన్నారు.

ఫవర్ సిస్టమ్ జాతీయ సదస్సు విజయవంతం



రామచంద్రాపురం: శ్రీవిద్యానికేతన్లో గత 15వ తేదీ నుంచి జరిగిన ఫవర్ సిస్టమ్ జాతీయ సదస్సు విజయవంతమైనట్లు శ్రీపుల్ఈ విభాగాధిపతి డాక్టర్ టి.నాగేశ్వరప్రసాద్ శనివారం ఒక ప్రకటనలో తెలిపారు. శనివారం ఏఐసీటీఈ, స్పాన్సర్డ్ ప్యాకల్టీడెవలప్మెంట్ పోగ్రామ్, అద్వాన్సెడ్ ఇన్ ఫవర్ సిస్టమ్ అపరేషన్, ప్రొటెక్షన్ అండ్ కంట్రోల్ ప్రోగ్రామ్ ముగిసింది. ఇంజనీరింగ్ విద్యలో నాణ్యత పెంపొందించడంలో శ్రీవిద్యానికేతన్ ఎల్లప్పుటికీ అగ్రగామిగా నిలుస్తుందని సదస్సులో పాల్గొన్న ప్రముఖులు అభిప్రాయపడ్డారు. ఈ సదస్సుకు వలు రాష్ట్రాల నుంచి అధ్యాపకులు పాల్గొన్నారని వారికి కళాశాల స్పెషల్ ఆఫీసర్ గోపాలరావు అభినందించారు. ఈ సదస్సులో డైరెక్టర్ డాక్టర్ డీవిఎస్ భగవాన్లు, ఎన్ఐటీ ప్రొఫెసర్లు తదితరులు పాల్గొన్నారు.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Organized

NATIONAL LEVEL TECHNICAL SEMINAR

A One day national level Seminar on **“State Estimation and Power System Security”** by Dr. Sydulu Maheswarapu, Professor, Dept of EEE, NIT Warangal and Dr. G.Yesuratnam, Professor, Dept of EEE, Osmania University is organized under TEQIP-II for Electrical Engineering faculty of SVEC and various AICTE approved Engineering colleges, at E- Class room on 31-10-2014 from 9.00AM to 5.00PM.

Dr. Sydulu explained Transmission system is under stress, Operators need reliable information to operate, interconnected power networks and the task of securely operating system. At the end of the session he interacted with the participants for clarifying the queries. The participants got immensely benefited from his lecture.

Dr. G. Yesuratnam explained the contingency selection, AC power flows and concentric relaxation. At the end of the session he interacted with the participants for clarifying the queries. The participants got immensely benefited from his lecture.



Inaugural function



Group photo of participants along with Resource persons

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Two Day National Level Workshop On
***“Current Practices in EHV and UHV AC Transmission
&
Renewable Energy based Power Plants”***
2nd & 3rd August, 2014.

The Department of EEE has organized a Two-day National Level Workshop on ***“Current Practices in EHV and UHV AC Transmission & Renewable Energy based Power Plants”*** during **2nd & 3rd August, 2014**, under **TEQIP – II**, to provide the opportunity for the faculty of EEE from various engineering colleges to correlate the academic presentation with real time practices in the Power Systems Industry and to impart the design skills among the Teaching Faculty in the area of EHV and UHVAC Transmission and Renewable Energy based Power Plants.

This workshop mainly focused on current practices, research challenges and latest developments in the area of EHV & UHV AC Transmission and Renewable Energy based Power Plants.

The resource persons gave lectures on

1. Current Practices & Advancements in EHV Substation Protection & Automation.
2. Preliminary Design aspects & current practices in the construction of EHV Substations, EHV & UHV Transmission Lines and HVDC Transmission Systems.
3. Role of Power Electronics in Renewable Energy based Power Plants.

About 50 members from various engineering colleges and Faculty of EEE, SVEC have participated in the program.

Sri. Gopal Halder, Founder & Principal Consultant, Advanced Ultra Power Transmission Consultancy (AUPTC), Ahmedabad was the Chief Guest. He addressed the Participants on importance of committed learning and technology updating in his Inaugural speech.

Prof. T. Gopala Rao, Special Officer, Sree Vidyanikethan Educational Trust, was the Guest of Honor.

Dr. P.C. Krishnamachary, Principal, **Dr. T. Nageswara Prasad**, Professor & HOD and **Dr.T.Devaraju**, Convener of the workshop, welcomed the participants.

Sri. Gopal Halder, **Sri. P. Satyanarayana Raju** and **Sri. Balla NSS Sankar**, were the resource persons for the workshop.

Photo Gallery

*Two Day National Level Workshop On
"Current Practices in EHV and UHV AC Transmission & Renewable
Energy based Power Plants"
2nd & 3rd August, 2014.*



Lighting the Lamp by Prof. T. Gopala Rao, Special Officer, SVET



Inaugural Speech by Dr.P.C. Krishnamachary, Principal, SVEC.



Welcome speech by Dr. T. Devaraju, Professor & Convener



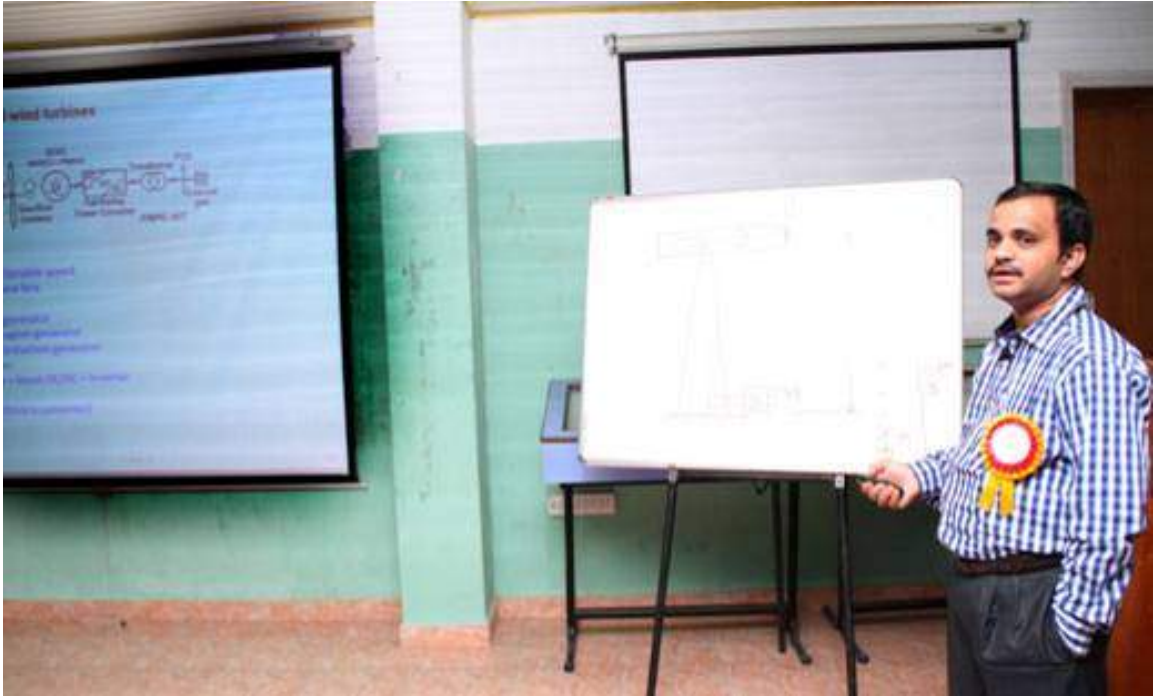
Chief Guest Sri Gopal Halder addressing the Participants



Sri Gopal Halder delivering the Lecture



Sri P. Satyanarayana Raju delivering the Lecture



Sri Balla NSS Shankar delivering the Lecture



Dr. D.V. Ramamurthy, Dean (R & D) presenting the certificate to the participant



Dr. T. Nageswara Prasad, Professor & HOD presenting the certificate to the participant



Group Photo

Department of Electronics and Instrumentation Engineering

REPORT

The Department of EIE and ECONE jointly organized a National Level Faculty Development Programme on **Embedded Systems** during **10-11 October 2014**.

The main objective is to become well versed in the art of designing and developing Embedded Systems. Core concepts and various design options for Embedded Systems, Embedded C programming were discussed. An introduction on ARM processors, ARM programming Embedded basics was given.

Hands on training sessions were conducted on writing portable Embedded code using Emulators and Real hardware.

The following experts were the resource persons:

- 1. Mr. Mahesh Uttam Patil**, Principal Technical Officer, CDAC, Hyderabad.
- 2. Dr. T.Nageswara Prasad**, Head, Department of EEE, SVEC, A.RAngampet.

A total of 43 faculty members were benefited by attending this programme.

The Outcomes of the program:

1. Acquired knowledge on ARM processors Architecture and Organization, Core concepts and design options of Embedded Systems.
2. Able to write portable Embedded code.

Convener



Greeting the resource person Mr. Mahesh Uttam Patil with a bouquet.



Greeting the resource person Dr. T.Nageswara Prasad with a bouquet.



Mr. Mahesh Uttam Patil delivering a lecture



Cross section of participants



Mr. Mahesh Uttam Patil delivering a lecture



Distribution of participation certificates by Mr. Mahesh Uttam Patil



Department of GEBH

One Day Workshop on “Green Chemistry and Technology”

(Under TEQIP-II) on July 24th, 2014

Prof. C Devendranatha Reddy, Department of Chemistry, S V University, Tirupati, delivered a lecture on **Green Chemistry** and another lecture on **Green Technology**. He explained the importance of Green Chemistry and Technology in the protection of environment from pollution while obtaining quality chemical products such as drugs, plastics and agrochemicals.

Mr. C Sreenath, Department of Civil Engineering, Sree Vidyanikethan Engineering College, A. Rangampet, explained about green materials used for building construction in his talk on “**Green Buildings and Rating systems**”

Dr. Y B Kiran, Department of GEBH, Sree Vidyanikethan Engineering College, A. Rangampet, delivered information on “**Green Chemistry and its role for sustainability**”. He explained the application of green chemistry principles in practical life.

Overall outcome of this one day workshop

1. The participants got advanced knowledge in various concepts of Green Chemistry and Technology.
2. Focused on the application of Green Chemistry/Technology concepts to develop interdisciplinary engineering subjects, environmental care and sustainability.
3. Information on Green construction and green manufacturing technologies were highlighted.
4. Implementation of Green Chemical Principles for the laboratory experiments, research labs and industrial process were explained.



Inaugural talk by Dr. P.C. Krishnamachary, Principal, SVEC



Prof C Devendranath Reddy delivering lecture on "Green Chemistry"



Lecture by Dr Y. B. Kiran, Dept. of GEBH, SVEC



Participants



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet – 517102

Department of GEBH

A TWO-DAY NATIONAL WORKSHOP

ON

NANOMATERIALS: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS

(Under TEQIP-II)

2nd – 3rd September, 2014

Prof. O.M. Hussain, Dean, Department of Physics, S V University, Tirupati, delivered a lecture on “**Vaccum conditions and Physical synthesis methods for Nanomaterials**”.

Prof. B. Sreedhar, Scientist, IICT, Hyderabad, delivered a lecture on “**Characterization techniques XPS, TEM & AFM**”.

Dr. R. John Kennedy, Asst. Prof. (Sr), Department of Physics, VIT University, Chennai, delivered a lecture on “**Nanomaterials for Super capacitors**”.

Dr. J. Judith Vijaya, Asst. Prof., Department of Chemistry, Loyola College, Chennai, delivered a lecture on “**Nanomaterials as Sensors and Catalysts**”.

Targeted group: Faculty from SVET, AICTE approved Colleges.

Outcomes of the workshop

At the end of workshop, participants have

1. Learn Basic and Advanced Concepts of Nanomaterials.
2. Enhance their teaching and learning skills.
3. Acquire knowledge regarding current technological developments in Nanotechnology.
4. Develop competency in Research and Development activities in the field of Nanotechnology.
5. Know recent applications of Nanomaterials which are useful to the B.Tech students, as “Nanotechnology” is a part of curriculum.



Inaugural speech by Dr. D.V.S. Bhagavanulu, Director, SVEC



Motivated speech by Dr. Ramamurthy, Dean, Research (R&D), SVEC



Prof. B. Sreedhar delivering the lecture



Participants



Prof. O.M. Hussain delivering the lecture



Dr. R. John Kennedy delivering the lecture



Dr. J. Judith Vijaya delivering the lecture



Participants



**Distribution of certificates to the participants by AVM Prasad, HOD,
GEBH**



**Distribution of certificates to the participants by the resource person
Dr. R. John Kennedy**



Group photo



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet – 517102

A TWO –DAY NATIONAL LEVEL
FACULTY DEVELOPMENT PROGRAMME
ON

PRAGMATIC STRATEGIES FOR PROFESSIONAL COMMUNICATION
(UNDER TEQIP –II)

26th & 27th SEPTEMBER, 2014

A Two Day National Level Faculty Development Programme on “Pragmatic Strategies for Professional Communication” was organized by the Department of GEBH on 26th and 27th September, 2014. The programme was inaugurated with the speeches delivered by the Chief Operating Officer, Dr. I. Sudharsan Kumar, Sree Vidyanikethan Educational Trust, Principal Prof. K.C. Krishnamachary, Sree Vidyanikethan Engineering College and Resource persons on 26.09.2014 at 9.40 am. A total of 30 outstation participants and 70 In-house participants registered for the program.



Dignitaries on the dais during Inaugural Session



Dr. I. Sudharsan Kumar, Chief Operating Officer, SVET addressing the gathering

The programme was kick started by Prof. Meenakshi Raman, Professor and Head, Department of H&S, BITS Pilani, Goa with her session on "Interpersonal Communication: The Corner Stone of Professional Communication." She emphasized the importance of Interpersonal Communication in the professional arena.



Prof. Meenakshi Raman, Professor and Head, Department of H&S, BITS Pilani, Goa delivering the lecture.

Prof. N. Gurunatha Naidu, Management Expert, SVIM, provided a bird's eye view of communication process in organizations. The pragmatic strategies suggested through his session on "Hierarchical Communication" were in line with the theme of the programme.



Prof. N. Gurunatha Naidu, Management Expert, SVIM delivering the lecture

Prof. Bhaskaran Nair, Hindustan University, Chennai delivered his lecture on "Teaching skills and Classroom Communication Skills" in the afternoon session.



Prof. Bhaskaran Nair, Hindustan University, Chennai delivering his lecture on "Teaching skills and Classroom Communication Skills"

The first day ended with the lecture by Prof. Meenakshi Raman on “Acing the Job Interviews.” She conducted mock interviews upgrading the faculty about strategies and techniques of the Interviews.

The second day of the program started with the lecture by Prof. N. Gurunatha Naidu on “Connecting is Crucial for Leadership”. It was followed by Dr. P. Bhaskaran Nair’s sequel session on “Teaching Skills and Class room Communication Skills.”



Dr. Mohan, Sree Vidyanikethan Institute of Management, Tirupati, addressing the gathering

The two day program came to an end with a speech by Dr. Mohan, Sree Vidyanikethan Institute of Management, Tirupati, in the valedictory function. Felicitations of the resource persons and certificate distribution were also the part of it.

“Research Challenges and issues in Big Data Analytics”

(23-24 JUNE, 2015)

Workshop was organized by Department of Information Technology, Sree Vidyanikethan Engineering College, A. Rangampet. The workshop was organized for two days i.e., June 23-24, 2015 under DST - SERB. About 50 faculty members are actively participated and gained useful information from all the sessions.

Day 1: 23-06-2015 (Tuesday)

The workshop was inaugurated by **Mr. V. Ravi**, Chief Guest, IDRBT, Hyderabad, **T.N.Manjunath** Professor, AIT, **Dr.D.V.S.Bhagavanulu** Director, **Dr.V.V.Ramaprasad** Professor of CSE, and **Dr. K.Ramani**, HOD of IT & Convener of the Programme, at 9:30 A.M to 10.00 AM

Session 1:

Mr. V. Ravi, Professor at IDRBT, Hyderabad, from 10.00 AM – 11.30 AM, explained Big Data Fundamentals and its Applications towards finance.

Session 2:

Mr. V. Ravi, Professor at IDRBT, Hyderabad, from 11.45 AM – 01.30 PM, delivered on Research issues in Finance Data and he discussed several case studies. The participants interacted with resource person and he clarified their doubts regarding challenges and issues of Big Data.

Session 3:

Mr. T. N. Manjunath, Professor of CSE, Acharya Institute of Technology, Bangalore, from 2:15 PM – 3.30 PM, demonstrated on Hadoop framework and its Ecosystem with Horton works sandbox live demo. The participants fascinated with Hadoop implementation and interacted with resource person and clarified their doubts regarding Hadoop components such as HBase and Mapreduce.

Session 4:

Mr. T. N. Manjunath, Professor of CSE, AIT, Bangalore, from 3:45 PM – 5.00 PM, demonstrated on Hadoop framework and its Ecosystem. The participants gained overall concepts with Hadoop implementation and interacted with resource person and he clarified participants doubts regarding Hadoop components such as Pig and Hive.

Day 2: 24-06-2015 (Wednesday)

Session 1:

Dr. B.B.Prahlada Rao, Joint Director, C-DAC, Bangalore from 9:30 AM – 11.30 AM, Big Data Challenges: Global Perspectives and shared the scientific working applications at C-DAC in big data technologies.

Session 2:

Dr. B.B.Prahlada Rao, Joint Director, C-DAC, Bangalore from 11:45 AM – 1.30 PM, demonstrated on MapReduce framework and Anatomy of a MapReduce Job.

Session 3:

Dr. Ch. Sudhakar, Associate Professor of CSE, National Institute of Technology, Warangal from 11.45 AM – 1.30 PM, demonstrated HDFS Architecture and MapReduce programming concepts with practical examples.

Session 4:

Dr. Ch. Sudhakar, Associate Professor of CSE, National Institute of Technology, Warangal from 2.15 PM – 4.30 PM, demonstrated fault tolerance mechanism in Hadoop environment with a case study. The participants interacted with him to discuss about advanced methods and commands used in Hadoop implementation.



Fig. 1: **Dr. V. Ravi**, Professor, IDRBT, Hyderabad chief guest inaugurating the workshop



Fig 2. **Participants** registering for DST sponsored National Workshop



Fig 3. **Dr. V. Ravi**, Professor, IDRBT, Hyderabad delivering the lecture on Big data applications



Fig 4. **Dr. Manjunath T.N**, Professor, AIT, Bangalore delivering lecture on Hive



Fig 5. **Dr. B.B. Prahlada Rao**, Joint Director, CDAC delivering lecture



Fig 6. **Dr.CH. Sudhakar**, NITW demonstrating lecture on MapReduce Programming



Fig 7. **A.Srinivasulu**, Coordinator giving vote of thanks at valedictory function



Fig 8. **Group** Photo of the participants for DST sponsored National Workshop

A Two Day National Workshop on “ADVANCED MANUFACTURING SYSTEMS SIMULATION: HANDS-ON-TRAINING”

08th – 09th September, 2014

(Under TEQIP-II)

Department of Mechanical Engineering organised a Two Day National Level Workshop on “**ADVANCE MANUFACTURING SYSTEMS SIMULATION: HANDS-ON-TRAINING**” and was inaugurated by the Chief Guest Sri. Mano Kanthanathan, Managing Director, Commercial Consultancy Services, Bangalore on 08.09.2014 at 9.20 AM. A total of 28 external participants and 38 internal participants registered for the program.



Dignitaries on the dais during Inaugural Session

In the morning session on 08.09.2014, Sri. Mano Kanthanathan, Managing Director, Commercial Consultancy Services, Bangalore delivered a keynote address on “introduction to advanced manufacturing systems”. He emphasized on the basics of manufacturing systems and also the importance of simulation in Indian industries.

After the first session in the forenoon, Sri. G.N.V.Maruthi Kasyap, Director, Sun Vision Technologies, Hyderabad delivered a lecture on “Introduction to Discrete event simulation and building a simple simulation model”. Many case studies have been presented during his lecture. He also discussed on the use of Discrete Event Simulation

in manufacturing systems. Considering several functions applicable to a manufacturing system, Discrete Event Simulation roles were presented.

In the afternoon session on 08.09.2014, Sri. Ch.Phani Kumar, Senior Application Engineer, Sun Vision Technologies, Hyderabad delivered a lecture on "A review of some applications in simulation and analysis of simulation model results". Many case studies were illustrated to highlight the practical aspects. Real time applications were also discussed emphasizing on the real time issues encountered in a manufacturing system.

After the first session in the afternoon, Sri. D. Sai Niranjan, Product Specialist, Sun Vision Technologies, Hyderabad delivered a lecture on "Simulation applications in the Indian industry in manufacturing". Several interesting industrial applications and their analyses were presented to emphasize the use of simulation of manufacturing systems.

The second day of the Workshop provided rigorous and comprehensive hands-on practice on simulation of manufacturing systems using FlexSim software. The case studies considered during the lecture sessions were revisited during the hands-on simulation practice sessions. Sri.Mano Kanthanathan, Sri. G.N.V.Maruthi Kasyap, Sri. Ch.Phani Kumar, and Sri. D.Sai Niranjan interacted with the participants and provided insightful help in building accurate simulation models of the case studies considered.



Sri.Mano Kanthanathan, Managing Director, Commercial Consultancy Services, Bangalore delivering keynote address



Sri. G.N.V. Maruthi Kasyap, Director, Sun Vision Technologies, Hyderabad delivering lecture on "Introduction to Discrete event simulation and building a simple simulation model"



Sri. Ch. Phani Kumar, Senior Application Engineer, Sun Vision Technologies, Hyderabad delivering lecture on "A review of some applications in simulation and analysis of simulation model results"



Sri. D.Sai Niranjan, Product Specialist, Sun Vision Technologies, Hyderabad delivering lecture on "Simulation applications in the Indian industry in manufacturing"



Sri.Mano Kanthanathan, Managing Director, Commercial Consultancy Services, Bangalore illustrating case studies



Participants were given hands-on-training on various case studies



Valedictory Session



Participants were presented certificates by the Chief Guest



Group photo with participants

A Two Day Faculty Development Programme on “ADVANCES IN COMPOSITES AND NANO MATERIALS-PROCESSING AND APPLICATIONS”

05th – 06th December, 2014

(Under TEQIP-II)

Department of Mechanical Engineering organised a Two Day FDP on **“ADVANCES IN COMPOSITES AND NANO MATERIALS-PROCESSING AND APPLICATIONS”**. It was inaugurated by the Chief Guest Dr. A. Kumar, Associate Professor, Department of Mechanical Engineering, NIT Warangal on 05.12.2014 at 9.30 AM. A total of 24 external participants and 38 internal participants registered for the program.



Dignitaries on the dais during Inaugural Session



In the morning session on 05.12.2014, Dr. A.Kumar, Associate Professor, NIT Warangal, delivered a keynote address on "Introduction to Composites and nanomaterials".



The next session was handled by, Dr. A. Gopala Krishna, Professor, JNTUK, Kakinada. He delivered a lecture on "Development and characterization of Nano metal matrix". Many applications have been shared during his lecture.



In the afternoon session on 05.12.2014, Dr. A.Kumar, Associate Professor, NIT Warangal, delivered a lecture on "Fabrication of composites and its characterization using friction stir welding".



On 06-12-2014, Dr. G.L. Samuel, Associate Professor, IIT Madras, had taken the session on "Micro mechanics of composites and micro manufacturing

of composites”, and he interacted with the participants and provided insightful help in doing research in the area of Composites.



Dr D. Jeevan Prasad Reddy had delivered a lecture on “Recent advances in Bio Composites and Bio Nano composites” in the last technical session.

Valedictory Session



Participants were presented certificates by the Chief Guest

In the valedictory session Dr.G.L.Samuel gave away participation certificates for all the participants.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102, A.P.

DEPARTMENT OF MECHANICAL ENGINEERING

**A Report on Two-day Faculty Development
Programme on “Recent Trends in Shot Peening and
its Applications”**

19th -20th December 2014

(Under TEQIP-II)

Two Day Faculty Development Programme on “**RECENT TRENDS IN SHOTPEENING AND ITS APPLICATIONS**” was inaugurated by the Chief Guest **Er.A.Talukdar, Director of Surfiz Cleanz, Mumbai**. A keynote speech was delivered by the Chief Guest on “Basics of Shot Peening Operations”. A total of 17 external participants and 36 internal participants were registered for the program.

In the afternoon session on 19-12-2014, **Dr.N.Ramanaiah**, Professor, Department of Mechanical Engineering, Andhra University delivered a lecture on “Fatigue and its evaluation in various Engineering applications”.

The next session on 19-12-2014 was handled by **Er.A.Talukdar, Director of Surfiz Cleanz, Mumbai** on “Various applications of Shotpeening in industry”.

On second day of the program, **Dr. B.K.C.Ganesh**, Professor, Department of Mechanical Engineering, SVEC delivered a talk on “Shotpeening applications for improvement of Mechanical and wear behavior of various ferrous and non ferrous materials”. During the second session a talk on “XRD techniques in Engineering applications and residual stress measurement” was delivered by **Dr.N.V.Ravikumar, Head of XRD Laboratory, IIT Madras**.

In the afternoon session on 20-12-2014, **Dr.R.Gnana Moorthy**, Director, IIIT D & M Kancheepuram, delivered a lecture on “Laser peening applications and challenges on Surface Engineering”. The Session was concluded with a Valedictory function followed by certificate distribution.



Er. A.Talukdar, Director of Surfiz Cleanz, Mumbai inaugurating the programme



Dr.N.Ramanaiah, Professor, Department of Mechnaical Engineering. College of Engineering, Andhra University delivering a Lecture



Dr. B.K.C.Ganesh, Professor, Department of Mechanical Engineering, SVEC
delivering a lecture



Dr.N.V.Ravikumar, Head of XRD Laboratory, IIT Madras explaining the importance
of Shotpeening



Dr.R.GnanaMoorthy, Director, IIIT D &M Kancheepuram clarifying the doubt expressed by the participants



Valedictory Session

DEPARTMENT OF CIVIL ENGINEERING

One Day National Workshop

On

“Trends in Transportation Engineering”

(13-04-2016)

One Day National Workshop on “**Trends in Transportation Engineering**” was organized by Department of CE under TEQIP-II on 13th April 2016 at **Seminar Hall of Civil Engineering Block** in Sree Vidyanikethan Engineering College.

The detailed report of Workshop is given below.

Mr.D.Srikanth, Senior Engineer, BSCPL Infrastructure Ltd., Hyderabad, delivered an Industry Expert Lecture on “Asia Longest 9.15 Km Segmental Bridge Presentation”. He emphasized the importance of Transportation Engineering and construction of Bridges. He discussed about the Importance of Transportation Techniques in the field and Research scope to do their B.Tech projects in this area.



Mr. D. Srikanth, Industrial Expert, from BSCPL delivering his Lecture on “Asia Longest 9.15 Km Segmental Bridge construction”



Grand felicitation to the industrial person Mr.D.Srikanth

A Two Day Research Oriented Faculty Development Program

on
"Cyber Security & Forensics"
10-11 December, 2015

Department of CSE organized a Two Day Research Oriented Faculty Development Program on "**Cyber Security & Forensics**" during 10 – 11 December, 2015. The Program was inaugurated by **Dr. M. Srikanth, Senior Security Analyst, Department of Web Security, CDAC, Hyderabad.**

On the first day (10-12-2015) of the program Dr. M. Srikanth, Senior Security Analyst, Department of Web Security, CDAC, Hyderabad, explained about "**Introduction and History of Cyber Security**". The afternoon session was delivered by Mr. K.G. Srinivasa, Professor & Head, Dept. of CSE, MSRIT, Bangalore on "**Introduction to Cyber Forensics**".

On the second day (11-12-2015) Dr. M. Srikanth, Senior Security Analyst, Department of Web Security, CDAC, Hyderabad addressed current trends & issues in "**Cyber security**". The afternoon session delivered K.G. Srinivasa, Professor & Head, Dept. of CSE, MSRIT, Bangalore on "**Web based Attacks through forensic analysis**". All the FDP Sessions were highly interactive and were quite interesting.

Outcomes:

- Faculty Gained in depth knowledge and research orientation on Cyber Security & Forensics.
- Faculty gained knowledge on cyber security principles and laws.
- Understand and analyzed web based attacks through forensic analysis.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, Tirupati – 517 102

Department of Electronics and Communication Engineering

International Seminar on **“INNOVATION, ENTREPRENEURSHIP AND COMMERCIALIZATION”**

Under III Cell-TEQIP-II

On 11-03-2016 from 11:00 PM to 1:30 PM in Auditorium

The International Seminar was organized by Department of ECE, Sree Vidyanikethan Engineering College on 11th Mar. 2016 on “Innovation, Entrepreneurship and Commercialization” under IIC, TEQIP-II . 450 students of III B. Tech. of SVEC attended the seminar.

At 11.00 AM the event started with Mr. S. Hema Chandra, Industry Institute Interaction Cell Coordinator introducing the milestones in establishing Incubation center in Sree Vidyanikethan Engineering College and importance of Entrepreneurship and Product Commercialization in this context.

Mr. Giridhar Gadiraju from 7inq commented on the importance of Research in engineering domain whereabouts in India. He mentioned that research on shelves is useless and it should help the society in form of product development. He informed students regarding the approaching agencies for Tie-up to create opportunities and establish Tie-ups for product design and commercialization.

Mr. Vishal Khanna, Senior Assistant Director, Federation of Indian Chambers for Commerce and Industry (FICCI) took over the session and informed students about start up initiatives, Andhra Pradesh State Initiative towards commercialization of products born from ideas. He motivated students how ideas had be approved for funding to initiate start ups in the country as well as abroad.

Mr. Glenn Robinson, Director, Global Commercialization Group, IC2 Institute, University of Texas at Austin spoke about the commercialization aspects abroad. He inspired students by encouraging them to give their ideas towards contribution for the incubation centre. He introduced the ideas and strategies aiming at developing institutes economic development by supporting Innovation, Entrepreneurship and Commercialization.

The Management of SVEC, IIC Cell, TEQIP-II felicitated the Resource persons for inspiring students of SVEC, future Entrepreneurs towards Innovation and Commercialization.



Resource Persons (from left) Mr. Giridhar Gadiraju, Mr. Vishal Khanna, Mr. Glenn Robinson interacting with Management Members and Faculty of SVEC, Tirupati



Mr. Giridhar Gadiraju from 7inq speaking about the current research trends in india, Abroad and Research Funding Agency whereabouts in India.



Mr. Vishal Khanna, Senior Assistant Director, FICCI informing Students about model innovation ideas which have fetched international funding.



Resource Person Mr. Glenn Robinson speaking with students about Innovation and commercialization opportunities



Students interacting with Resource Person Mr. Glenn Robinson regarding opportunities for product commercialization



Principal, IIC Coordinator- TEQIP-II and HOD of ECE Felicitating Resource Person

“Research Issues in Advanced Signal Processing”

(20-21 August, 2015)

Workshop was organized by Department of Electronics and Communication Engineering, Sree Vidyanikethan Engineering College, A. Rangampet. The workshop was organized for two days i.e., August 20-21, 2015 under DST - SERB. About 40 faculty members have actively participated and gained useful information from all the sessions.

Day 1: 20-08-2015 (Thursday)

The workshop started at 9.00 AM with a welcome address by Dr.C. Subhas, Dean Academics and Advisor of the Program. Prof. P V Ramana, Professor & Head of ECE, and Convener of the Program briefed about the objective of the Workshop.

Session 1:

Dr. T. Kishore Kumar, Professor and Head, Department of ECE, NIT, Warangal discussed about various Signal Processing techniques and its Applications from 10.00 AM – 11.30 AM.

Session 2:

Dr. T. Kishore Kumar, Professor and Head, Department of ECE, NIT, Warangal delivered talk on Research issues in Advanced Signal Processing from 11.45 AM – 01.15 PM. The participants interacted with the resource person and he clarified their doubts regarding challenges and issues of Signal Processing.

Session 3:

Dr. T. Narayana Rao, Scientist- SF, NARL, Gadanki delivered talk on Wind Profiling of Radars from 2:15 PM – 3.30 PM.

Session 4:

Dr. T. Narayana Rao, Scientist- SF, NARL, Gadanki delivered talk on Research issues and methods of Wind Profiling of Radars from 3.45 PM – 5.00 PM. The participants interacted with resource person.

Day 2: 21-08-2015 (Friday)

Session 1:

Dr. G. Ramachandra Reddy , Senior Professor & Dean, Dept. of ECE, VIT, Vellore explained about Least Squares Filter Design in signal processing from 9:30 AM – 11.30 AM.

Session 2:

Dr. G. Ramachandra Reddy , Senior Professor & Dean, Dept. of ECE, VIT, Vellore explained about Eigen Filter Design Concepts used in signal processing and its applications from 11:45 AM – 1.15 PM.

Session 3:

Mr. J. Prem Kumar, Senior Application Engineer and **Mr. C. Naresh Babu**, Application Engineer, Capricot Tech. Pvt. Ltd, Bangalore, demonstrated the latest Tools used for signal processing using MATLAB from 2:15 PM – 3.30 PM. There was a training session in which many theoretical and practical illustrations using examples were discussed and demonstrated.

Session 4:

Mr. J. Prem Kumar, Senior Application Engineer and **Mr. C. Naresh Babu**, Application Engineer, Capricot Tech. Pvt. Ltd, Bangalore, demonstrated how to analysis of various Real-Time signals using MATLAB from 2.15 PM – 4.45 PM. The participants interacted with him to discuss about advanced methods and Tools used in Signal Processing.



Participants registering for the Workshop



Dr. T. Kishore Kumar, Professor, NIT, Warangal delivering the lecture " Research Issues in Advanced Signal Processing Techniques".





Prof P V Ramana, Head of ECE and Convener of the Work shop, **Dr. C Subhash** , Dean Academics and **Dr. G Ramachandra** during the workshop.



Dr. G Ramachandra Reddy, Professor, VIT, Vellore delivering lecture on Least Squares and Eigen Filter Design



Participants during the Workshop



Mr. J. Prem Kumar, Senior Application Engineer, Capricot Tech. Pvt. Ltd, Bangalore demonstrating in Hands on training session

Report
on
A Two Week
National Level Workshop
on
Applications of MATLAB in Electrical Engineering
(13 -25 June, 2016)

Organized by

Department of Electrical & Electronics Engineering

SREE VIDYANIKETHAN ENGINEERING COLLEGE

under TEQIP-II



The two week national level workshop on “**Applications of MATLAB in Electrical Engineering**” was organized by the Department of Electrical & Electronics Engineering, Sree Vidyanikethan Engineering College from 13th to 25th June, 2016. The FDP programme received an overwhelming response with 123 participants from in and around engineering colleges of the district.

The endeavor was successful in creating learning environment for the faculty, research scholars and post graduate students and also in providing hands-on experience in programming and modelling skills through MATLAB. The workshop has also provided a forum for interacting and sharing ideas among the faculty and opened the new avenues for academic collaborative activities.

The proceeding of the two week national level workshop were inaugurated by the eminent personalities on 13th June, 2016.

1. Dr. D. V. S. Bhagavanulu, Director, Sree Vidyanikethan Engineering College.
2. Dr. C. Subhas, Dean Academics, Sree Vidyanikethan Engineering College.
3. Dr. T. Nageswara Prasad, Professor & HOD EEE, Sree Vidyanikethan Engineering College.
4. Dr. T. Devaraju, Professor & Chairman BOS EEE, Sree Vidyanikethan Engineering College.

Mr. D. Suresh Babu, Coordinator of the workshop has welcomed all the dignitaries and participants in his opening address. **Dr. D.V.S. Bhagavanulu**, Director, Sree Vidyanikethan Engineering College in his welcome address, brought out the importance and objectives of the workshop and requested the participants to learn more and disseminate the knowledge gained among the students and peer group as well. **Dr. C. Subhas**, Dean Academics of Sree Vidyanikethan Engineering College appreciated the Department of EEE for organizing such a program and welcomed all the enthusiastic participants. **Dr. T. Nageswara Prasad**, HOD EEE and **Dr. T. Devaraju**, Professor & Chairman BOS EEE emphasized the benefits of such kind of ingenious activity and urged the resource persons and participants to create a teaching and learning environment to the best.

Day 1: Inaugural session, 13-06-2016, 9:30 A.M to 11:00 A.M.



Dr. D.V.S. Bhagavanulu, Director, SVEC at inaugural Function.



Dr. C. Subhas, Dean Academics, SVEC at inaugural Function.



Dr. T. Nageswara Prasad, HOD EEE, at inaugural Function.



Dr. T. Devaraju, Professor & BOS Chairman EEE at inaugural Function.



Mr. D. Suresh Babu, Cordinator & Assistant Professor, EEE, at inaugural Function.

Day 1: 13-06-2016

Technical Sessions: Programming skills for the Electrical engineers in MATLAB.



Dr. S. Farook, Associate Professor, EEE, SVEC has delivered a lecture on MATLAB programming.

In the sessions the participants were taught with the fundamentals of programming and few exercises were given to them for practice.

Day 2: 14-06-2016

Technical Sessions: Fundamentals of Simulink for the Electrical engineers in MATLAB



Mr. A. Munishankar, Assistant Professor, EEE, SVEC has delivered a lecture on Introduction to SIMULINK.

In these sessions the participants were taught the fundamentals of SIMULINK and few exercises were given to them for practice.

Day 3: 15-06-2016

Technical Sessions: Applications of Simulink to power electronics.



Dr. T. Devaraju,
Professor, EEE, SVEC has delivered a lecture on Modeling & Simulation of Power Electronics Converters.

In these sessions the participants had hands-on practice of SIMULINK applications to Power Electronics.

Day 4: 16-06-2016

Technical Sessions: Applications of MATLAB toolbox for power systems.



Dr. N.M.G. Kumar,
Professor, EEE, SVEC has delivered a lecture on MATLAB Tool box for Power System & Power Electronic Applications.

In these sessions the distribution system studies were performed through the SIMULINK model.

Day 5: 17-06-2016

Technical Sessions: Applications of Artificial Neural Networks to load forecasting.



Dr. M. S. Sujatha,

Professor, EEE, SVEC has delivered a lecture on Artificial Neural Networks.

In these sessions participants were guided to use the neural networks for load forecasting.

Day 6: 18-06-2016

Technical Sessions: Applications of Programming into electrical distribution systems load flow solutions.



Mr. T. Ramana,

SAP Business Analyst, H.P.Global Soft Pvt.Ltd, Bangalore has delivered a lecture on Electrical Distribution Systems Load Flow Solutions and its Applications.

In these sessions the participants had a discussion on different load flow techniques for distribution system with MATLAB coding.

Day 7 & 8: 20-06-2016 & 21-06-2016

Technical Sessions:

Applications of Evolutionary algorithms to power systems.



Dr. C. Srinivasa Rao, Professor & Head, EEE, G.Pullaiah College of Engineering has delivered a series of lectures on Evolutionary Algorithms Applications to Power Systems.

In these sessions participants had a theoretical discussion on GA & PSO with MATLAB coding.

Application of data mining to power system.



Mr. P. Sekhar, Assistant Professor, EEE, Vigyan Institute of Technology has delivered a series of lectures on Application of Data Mining to Power System.

In these sessions participants were guided to generate the data with respect to power system security through MATLAB coding and utilizing the data mining tools based on the classification of the problem.

Application of Power system toolbox.



Mr. I. Kumaraswamy, Assistant Professor, EEE, SVEC has delivered a lecture on Power System Analysis Toolbox (PSAT).

Day 9 & 10: 22-06-2016 & 23-06-2016

Technical Sessions: Application developments in MATLAB.



Mr. Venkataswamy. R, Consultant, Gnanagene Technologies & Assistant Professor, Christ University Faculty of Engineering has delivered a series lecture on Application Developments in MATLAB. He also emphasized the PG students to take some projects as startups. In these sessions participants were able to create the Graphical User Interface applications based on the MATLAB coding interfacing.



Day 11 & 12: 24-06-2016 & 25-06-2016

Technical Sessions: Design of Intelligent controllers for power electronics system.



Dr. S. Albert Alexander, Assistant Professor (senior grade), from Kongu Engineering College has delivered a series of lectures on Design of Intelligent Controllers for Power Electronics systems.



Power quality improvement using fuzzy logic and artificial neural network was also dealt during the sessions.

Valedictory Function

The honorable dignitaries present in this occasion was Dr. S. Albert Alexander. The Head of the Department of EEE, Dr. T. Nageswara Prasad summarized the program. Dr. T. Devaraju, Professor, EEE, has emphasized on the utilization of the software post workshop. All the personalities appreciated the Department for organizing the workshop. The certificates and course material were distributed to all the participants.





Finally the participants were asked to share their experience and learning of the whole program.

The program has ended with vote of thanks by Mr. D. Suresh Babu, Assistant Professor in EEE & Coordinator of the workshop. **Mr. M. V. N. Pavan Kumar**, Assistant Professor, EEE, SRIT, Ananthapur, **Mr. G. Venkateswarulu**, Assistant Professor, EEE, G.Pullaiah College of Engineering & Technology, Kurnool, Mr. **M . Sudhakar**, Research scholar, S. V. Univeraity and **Mr. C. Ganesh**, Assistant Professor, EEE, AITS, Rajampeta has shared their experiences of the workshop and expressed their gratitude to the organizers for providing content rich sessions in the feedback session.



The following is the feedback received from the participants:

- 96% of the participants felt that the delivery and presentation of the resource persons were good.
- 90% of the participants felt that the workshop was coordinated very well.
- Participants felt that such workshop should be carried out in other subjects and fields of electrical engineering.
- Participants felt that the hospitality, boarding and lodging facilities were highly satisfactory.

Outcomes:

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics were in line with the advanced and recently emerged domain of electrical engineering. Participants were enlightened with the most widely used advance technologies in this domain which could have triggered a innovative seed in the minds of the participants which in turn shall nourished into a research activity. The participants had attained an updated knowledge in the respective domains of electrical engineering. The participants have also successfully practiced and solved the simulation exercises given to them for practice. Last, when the house is open for questions, the participants have raised challenging quarries with high level of enthusiasm they were aptly answered by all the expert speakers. The workshop has not only helped the participants to improve their programming and modelling skills and also helped them to develop intellectually.

Photo gallery of the workshop:





Department of Electronics and Instrumentation Engineering

REPORT

The Department of EIE organized a Workshop on **Hands on Experience in Virtual Instrumentation** during **12-13 May 2016**.

This workshop provided an opportunity to exchange ideas on the topics of importance along with thought provoking technical sessions. Resource persons delivered lecture on concepts of Virtual instrumentation, LabVIEW programming, data acquisition using LabVIEW and data acquisition using Arduino.

Hands on training sessions were conducted on LabVIEW and Arduino.

The following experts were the resource persons:

- 1. Dr. M. Saravanan**, Professor & Head, Dept. of EIE, SVEC, A.Rangampet.
- 2. Mr. M. Srikanth**, Assistant Professor, Department of EIE, SVEC, A.Rangampet.

A total of 51 faculty members were benefited by attending this programme.

The Outcomes of the program:

1. Acquired knowledge on Concepts of Virtual Instrumentation & LabVIEW.
2. Able to program basic virtual instruments in LabVIEW
3. Participants actively participated and interacted with Resource persons to clarify their doubts on virtual instrumentation
4. Able to acquire data using Arduino.
5. Gained knowledge on acquiring real-time data using ELVIS board and MyDAQ



Dr. M. Saravanan delivering a lecture



Dr. M. Saravanan delivering a lecture



Mr. M. Srikanth delivering a lecture



Cross section of participants



Hands on session on Virtual Instrumentation



Distribution of participation certificates by Dr. M. Sarvanan



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Department of Mechanical Engineering

One Day Faculty Development Programme on Outcome Based Education

23rd December, 2015

A one day faculty development programme was organized to the members of faculty of Mechanical Engineering on "Outcome Based Education" on 23rd December, 2015.

Dr. K.C.Varaprasad, Head of the Department given brief insights about outcome based education. He emphasized that with the recent surveys on the employability of graduates which have unanimously reported that the percentage of young graduates, particularly engineering graduates produced by the Indian education system, is poor. The basic problem for this is the quality of education and is very important to present generation of students. National bodies concerned with education like UGC and AICTE have been looking for ways and means to bring about reforms in the education system that would improve the quality of education in Indian universities and affiliated colleges.

The programme was organized with an objective

- To facilitate required changes in the teaching learning
- To explore the implications of OBE
- To generate realistic and workable ideas to the implementation of OBE
- To assess the relevance of OBE to NBA India
- To acquire the knowledge of NBA

The programme focused on how to develop outcome based curriculum documents through ICT for UG students. Importance of writing course overview, course objective, model objective and unit objective appropriately so that students can get clear idea of the benefit of studying the course was provided. Also the employer will get a picture of the capabilities acquired by the students by learning the course.



Dr. K.C.Varaprasad delivering the lecture

The faculty members of the department were enriched with the knowledge on outcome based education and Course objectives, course outcomes, program objectives and programme outcomes.

*A Two-Day Workshop
on*
“Research Methodology & Technical Paper Writing”

Under Technical Education Quality Improvement Program (TEQIP)-II

25-26 February, 2016

Quality research is the lifeblood of any scientific discipline. Without it, disciplines would stagnate, failing to advance past their current limits and understanding. This workshop is planned to activate research capabilities among the fellow faculty. This workshop is intended to generate a platform for various faculty members involved in research to become aware of current trends in scientific communication, importance of ICT technologies in research, indexing and citations through Google Scholar, art of technical paper writing etc.

With these objectives cited above, A Two-Day Workshop on “Research Methodology & Technical Paper Writing” was organized for the faculty of various departments of various engineering colleges during February 25-26, 2016.

Dr. K. Krishnaiah, Professor and Former Dean of Academic Research, IIT Madras had delivered the keynote lecture on “Mind of the Researcher” in the inaugural session. He emphasized the importance of creativity and open mindedness in conducting high quality research. He stressed the need of inter- disciplinary research in Engineering disciplines.



Dr.K.Krishnaiah delivering his lecture

Dr. A. Gopalakrishna, Professor in Mechanical Engineering at JNTU Kakinada had delivered a lecture on Google Scholar and Citations in the afternoon session. He had practically given some examples on calculation of H-index factors for a Scholar.



Dr.A.Gopalakrishna delivering his lecture

The second day of the workshop had started with a lecture by Dr.N.B.Venkateswarlu, Professor in CSE at AITAM, Tekkali. He had emphasized on importance of Statistics in research. These statistics on research would greatly help the mankind to understand the intensity and trend of various epidemics in medical field as well as in the application of statistics in various engineering disciplines. He also enlightened the future research trend in various engineering disciplines that would revolutionize the human life.



Dr.N.B.Venkateswarlu delivering his lecture

The afternoon session was started by Dr.P.N.Rao of BITS Pilani Hyderabad Campus. He underlined the importance of various research portals such as Research gate etc for effective literature survey and problem identification. He also educated the participants about various funding agencies and Post Doctoral opportunities for conducting advanced research. He explained the requirements and steps to prepare a good proposal for submitting to funding agencies.



Dr. P. N. Rao delivering his lecture

The last session in the workshop was conducted by Dr. B. K. C. Ganesh, Professor in Mechanical Engineering, SVEC, Tirupati. He had stressed the importance of collaborative and interdisciplinary research approach in engineering. He emphasized the importance of scientific communication and steps to write a good technical paper for submission to a peer reviewed journal and conferences.



Dr. B.K.C.Ganesh delivering his lecture

During the valedictory function, Dr. K.C.Varaprasad HOD had thanked all the participants for making the workshop a grand success. K.C.Varaprasad HOD, Convener and Coordinators of the program distributed the soft copy of the material and the certificates to the participants.



Distribution of Certificates to the participants during the Valedictory Function



**A Report on
A Two-Day Staff Development Programme on
"CNC PROGRAMMING: HANDS-ON EXPERIENCE"**

...For Lab Technicians

04th – 05th March, 2016

(Under TEQIP-II)

Manufacturing has gone through tremendous changes over the past few decades. The developments in computer open new vistas for extensive developments in every area of manufacturing. Computer Numerical Control (CNC) is a technology that combines electronic hardware with software programs to perform various operations in the machine tool industry. The present generation of CNC machine tools is designed to meet the requirements of high productivity, flexibility and high reliability to produce components of consistently high quality and accuracy combined with reduction in manufacturing cost. So it becomes essential to update the knowledge of academicians in the area of CNC Technology.

With this objective, a two-day staff development programme on "CNC Programming : Hands-on Experience" was organized for the lab technicians of various engineering colleges during 4-5 March, 2016.



Inauguration of two-day staff development programme

Dr. Sanjeev Reddy K. Hudgikar, Professor and Principal, LingarajAppa Engineering College, Bidar, Karnataka State and Dr.K.C.Varaprasad, Professor and Head of the Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, acted as resource persons for the two days.

Dr. Sanjeev Reddy K. Hudgikar during his inaugural address notified that faculty are sound in theoretical aspects whereas technical staff are sound in practical knowledge. As the technology is continuously updating, training is required for lab technicians to tune themselves with the advanced machines.

Dr. Sanjeev Reddy K. Hudgikar in his key note address detailed that Computer Numerical Control part programming is the procedure by which the sequence of processing steps to be performed on the CNC machine is planned and documented. The said programme outlines the development of few manual part programs for complex contour. These are user friendly programs involving the terminology of G and M codes.

Dr. K.C.Varaprasad explained that a part program is a set of encoded information giving co-ordinate values and other details to achieve a desired machining. It contains all the information for machining of the component, which is fed to the CNC systems. He illustrated through hands-on experience on graph sheets the types of coordinate systems and representation of the coordinates.



Hands-on Experience on the Machine Simulator

On 5th March, 2016, a complete hands-on experience was provided to the participants on simulation of programs pertaining to CNC lathe machine. In the afternoon session, demonstration was given on CNC lathe operation. The delegates also operated the machine and components were manufactured on CNC lathe

machine. Mr. E. Radhakrishnan, Mr. G. Dileep Kumar, Mr. K. Vinod Kumar and Mr. D. Madhusudan Reddy of Department of Mechanical Engineering, Sree Vidyanikethan Engineering College assisted the participants during hands-on sessions for the two days.



Hands-on Experience on the CNC Lathe Machine

During the valedictory function, Dr. K.C.Varaprasad explained the role to be played by the lab technicians during the laboratory sessions and their importance for the development of students. Dr. Sanjeev Reddy elucidated that computer allows economical programming for machining of complex parts which could not be manually programmed easily.

Dr. Sanjeev Reddy and Dr.K.C.Varaprasad distributed the soft copy of the material and the certificates to the participants.



Distribution of Certificates to the participants during the Valedictory Function

A Two day Faculty Development Program

on

“Trends in Structural Engineering”

(Under TEQIP-II)

15th & 16th July, 2016

The Department of Civil Engineering organized a two day faculty development program on “Trends in Structural Engineering” (Under TEQIP-II) during 15th & 16th July, 2016 at the **Seminar Hall of Mechanical Engineering Block** in Sree Vidyanikethan Engineering College, A. Rangampet.

The programme was successfully organized by, Mr. V. Mahesh, Assistant Professor, Coordinator-FDP, with the valuable guidance by Dr. D.V.S. Bhagavanulu, Director, SVEC and with the support rendered by Dr. M.V. Subba Reddy, Head of the Department, CE and other organizing members. The program was inaugurated by Dr. D. V. Prasada Rao, Professor, Department of Civil Engineering, Sri Venkateswara University College of Engineering, Tirupati. The programme was conducted with 8 resource persons (4 from industry and 4 from academic institutions).

The resources persons from the academic institution are Dr. D. V. Prasada Rao, Professor, S.V. University and Dr. D.S. Ramachandra Murthy, Director (R&D) and Bursar, St. Peter's University, Chennai. The resource persons from the industry are Mr. Kalyan, Assistant Design Engineer, M/s Design Tribe India Pvt Ltd. Hyderabad and Mr. K Sumanth Reddy, Deputy General Manager M/S CDM Smith, Bengaluru. A total of 12 external participants from various Engineering Colleges and 24 internal participants attended for this program.

All the participants evinced keen interest in the lectures and were highly benefited. The resources persons from industry are accepted to support for student internships, consultancy and research activities.

The album of the programme is enclosed herewith.



Dr. D. V. Prasada Rao, Professor, S.V. University delivering a lecture on Effect of Mineral Admixtures on Properties of Concrete - An Experimental Investigation



Dr. D.S. Ramachandra Murthy, Director (R&D) and Bursar, St. Peter's University, Chennai delivering a lecture on Design and Construction of Concrete Structures



Mr. Kalyan, Assistant Design Engineer, M/s Design Tribe India Pvt Ltd.
Hyderabad delivered lecture on design of elevated towers



Mr. K Sumanth Reddy, Deputy General Manager M/S CDM Smith, Bengaluru,
delivered a lecture on Introduction to Highway Loading and Analysis of Bridge Structure

Mr.V.Mahesh
Assistant Professor

A Two Day Research Oriented Faculty Development Program

on
"Open Source Technologies"
26-27 September, 2016

Department of CSE organized a Two Day Research Oriented Faculty Development Program on **"Open Source Technologies"** during 26 - 27 September, 2016. The Program was inaugurated by **Dr. G. Muneeswari, Associate Professor of CSE, SSN College of Engineering, Chennai**. A total of **150** Faculty from Various Engineering Colleges Participated in the program.

On the first day (26-09-2016) of the program Dr. G. Muneeswari, SSN College of Engineering, Chennai explained about **"Evolution of Open Source Technologies"**. The second session was delivered by Dr. Sakkaravarthy Ramanathan, Associate Professor, VIT University, Chennai Campus on **"Introduction to IIoT"**. The Afternoon sessions were delivered by Mr. Anikush Rai and Dr. Sakkaravarthy Ramanathan, VIT University, Chennai on **"Research Challenges in IIoT"** and **"Current Strategies & Solutions to Challenges in IIoT"**.

On the second day (27-09-2016) Dr. S. Magesh, Associate Professor of CSE, SRM University, Chennai addressed current trends & issues in **"Open Source Tools for Data Analytics"**. In the Second session Dr. S. Magesh enlightened the gathering on **"Scientific Data Analytics with R"**. The afternoon session delivered Mr. A. V. Sriharsha on **"Introduction to Open Source Hardware - Arduino, Raspberry Pi"**. He demonstrated how **Raspberry Pi** can be used to achieve the simplest tasks. All the FDP Sessions were highly interactive and were quite interesting.

Outcomes:

- Faculty Gained in depth knowledge and research orientation on Open Source Technologies like R and Data analytic & visualization libraries.
- Faculty can understand the Open Source adoption to leverage the true potential of Open Source Technologies.
- Faculty are Motivated to use these Open Source Tools in their Research work.



Chief Guest, Convener and Other Dignitaries in Inaugural Function



Dr. G.Muneeswari ,SSN College of Engg, Chennai delivering Lecture on "Evolution of Open Source Technologies"



**Dr. Sakkraverthy Ramanathan , VIT, Chennai delivering Lecture
on "Research Challenges in IIoT"**



**Mr. Ankush Jain, VIT, Chennai delivering Lecture on
"Current Strategies & Solutions to Challenges in IIoT"**



**Dr. S. Magesh, SRM University, Chennai delivering Lecture on
"Scientific Data Analytics Using R"**



**Mr. A. V. Sriharsha, SVEC, Tirupati delivering Lecture on
"Open Source Hardware"**

Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME

A Two Day Faculty Development Programme on "**Data Analytics and Machine Learning with R**" under **TEQIP-II** is organized by the Department of CSE for faculty members and research scholars of various institutions during **21-22 October 2016**. **Dr. K. Vivekanandan**, Dean & Professor, Computer Science and Engineering, Pondicherry Engineering College, Puducherry, **Mr. Sarang Venukula**, Data Scientist, Karvy Analytics, Hyderabad, **Mr. Abhinav Srivastav**, Data Scientist, Karvy Analytics, Hyderabad, **Mr. A.V. Sriharsha**, Associate Professor, CSE, Sree Vidyanikethan Engineering College are the resource persons. A total of 80 Faculty from various Engineering Colleges participated in the program.

Dr. K. Vivekanandan commenced the first session with his keynote on "Challenges, Opportunities and Research Issues in Data Analytics". **Mr. Sarang Venukula** presented lectures on "Introduction to Machine Learning with R" and "Data at Scale - Working with Business Data (Big Data for Analytics)". **Mr. Abhinav Srivastav** shared his views and practical experience on "Data Management and Manipulation with R" and "Classification and Clustering with R". **Mr. A.V. Sriharsha** presented lecture "Visualization of Data with R". The sessions were interactive, knowledgeable and more practical.

Outcomes:

- ✓ Faculty were introduced to the emerging trends of Data Analytics and the current challenges and opportunities in the discipline.
- ✓ Faculty gained an In-depth knowledge and research orientation in the areas of Data Analytics and Machine Learning.
- ✓ Faculty gained ability to use R-Tool to apply Machine Learning algorithms on Datasets and to analyze the results.
- ✓ Faculty gained knowledge of how to apply Clustering and Classification algorithms to large data sets to extract meaningful insights.
- ✓ Faculty gained knowledge on how to select appropriate data visualizations to clearly communicate analytic insights to business sponsors and analytic audiences.
- ✓ Faculty are Motivated to use Data Analytic & Visualization Libraries such as R in their research work.



Chief Guest and Other Dignitaries in Inaugural Function



Dr. K. Vivekanandan delivering keynote on "Challenges, Opportunities and Research Issues in Data Analytics"



Mr. Abhinav Srivastav delivering lectures on "Data Management and Manipulation with R" and "Classification and Clustering with R"





**Certificate Distribution for the Participants in the Valedictory Function
by Convener.**

A One Week Faculty Development Programme on
"Advances in PYTHON programming"
November 28-December-02, 2016

A One Week Faculty Development programme on **"Advances in PYTHON programming"** was inaugurated by **Mr. Nilesh Borse, Vy Clean solutions, Nagpur** on 28-11-2016 at 09.30 AM. The keynote address was delivered by **Mr. Nilesh Borse**. A total of 110 participants registered for the program.

On the first day (28-11-2016) of the program **Mr. Nilesh Borse, Vy Clean solutions, Nagpur** briefed about **"Importance of Python Programming"**. In the second session **Mr. Rohith Govale, Vy Clean solutions, Nagpur** delivered lectures on **"Installation of Python and running the sample scripts under Python"**. The afternoon session was on Hands-On Practice where the faculty created simple python scripts for basic operations.

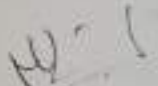
On the second day (29-11-2016) **Mr. Anup Kelkar, Vy clean solutions, Nagpur** discussed on **"Establishing database connectivity's with MySQL and Oracle"**. The Afternoon session was an Hands-on practice, the faculties were trained on connecting the python with different available databases.

On the Third day (30-11-2016) **Mr. Nilesh, Vy clean solutions, Nagpur** Starts the discussed on **"Designing GUI Interfaces with JPython"** followed by **Mr. Anup Kelkar** discussion on **"Python with MongoDB"**. The Afternoon session was on Hands-on practice, the faculties were trained on creating the applications with Python and establishing the database connectivity with MongoDB.

On the Fourth day (01-12-2016) **Dr. S Jothi Lakshmi** Associate Professor, Annamalai University, Starts the discussed on **"Designing GUI Interfaces with JPython"** followed by **"Sample Application development"** and also she handled another session on **"Python with Django"**. The Afternoon session was on Hands-on practice.

On the Fifth day (02-12-2016) **Mr. V. Anatha Natarajan, Assistant Professor, SVEC**, Starts the discussed on **"Data Analytics with Python"** followed by **"Image and Video manipulation with Python"**. In The Afternoon session all the participants were gone through Hands-on session and Valedictory.

- Develop a sample application using python programming
- Teach Python programming subject to the students.


HOD, CSE



Mr. Nilesh Borse, Vy Clean Solutions, Nagpur addressing the participants in Inaugural Function



Mr. Rohith Gavfale, Vy Clean Solutions, Nagpur clarifying the doubts during the Hands-on Sessions



Mr Anup Kelkar, CIO Vy clean solutions, Nagpur giving his lecture on database connectivity.



Dr. S. Jothi Lakshmi, Associate Professor, AnnaMalai University Giving a lecture on Python Concepts



Participants During the Session



Participants in the Valedictory Function with Resource Person.



A Two Day Faculty Development Programme

on

**“Emerging Trends in Big Data”
July 01-02, 2016**

Department of CSE organized a two day FDP on “Emerging Trends in Big Data” during 01 – 02 July, 2016. The Program was inaugurated **Mr.B.Varun Kumar reddy Co-Founder & CEO, Fragma Data Systems, Bengaluru.**

On the first day (01.07.2016) **Mr.B.Varun Kumar reddy Co-Founder & CEO, Fragma Data Systems, Bengaluru** explained about **Introduction to Big Data and Big Data Analytics and Hadoop**. The afternoon session was delivered by **Mr.G.LavanKumar Project Lead, TCS, Bengaluru on Hadoop Architecture, Hadoop HDFS and Map Reduce and Hadoop Cluster installation and operation.**

On the second day (02.07.2016) **Mr.G.LavanKumar Project Lead, TCS, Bengaluru** explained about **Developing simple application**. The afternoon session was delivered by **Mr.Ashok Prolaprogada Manager, Karvy Analytics, Hyderabad, Bangalore on Data storage and manipulation and Research trends in Big data technologies**. All the FDP Sessions were highly interactive and were quite interesting.

Outcomes:

- Faculty were introduced to the current challenges and opportunities in the big data.
- Faculty Gained in depth knowledge and research orientation in the area of big data analytics and Hadoop.
- Faculty gained ability to develop simple applications.

A One Week FDP
on
“Machine Learning”
December 19-24, 2016

Department of CSE organized a One Week FDP on “Machine Learning” during 19 - 24 December, 2016. The Program was inaugurated **Dr.R.B.V Subramanyam NIT-WARANGAL**.

On the first day (19.12.2016) and second day (20.12.2016) **Dr.R.B.V Subramanyam NIT-WARANGAL** explained about **overview of machine learning, classification-decision tree, random forests, clustering and principal component analysis**. On the third day (21.12.2016) was delivered by **Dr.G.Rammurthy IIIT-HYDERABAD** on **Neural Networks**.

On the fourth day (21.12.2016) and fifth day (22.12.2016) **Dr.S.Nagesh Bhattu , IDRBT-HYDERABAD** explained about **R programming, Linear and Logistic regression in R, Decision trees in R, PCA in R, Bayesian learning, maximum entropy models, linear discriminant analysis and Gaussian mixture models**. On the sixth day (24.12.2016) **Prof C.Chandrasekhar, IIT MADRAS** explained about **support vector machines and Deep learning models**. All the FDP Sessions were highly interactive and were quite interesting.

Outcomes:

- Faculty were introduced to the current challenges and opportunities in the machine learning discipline.
- Faculty Gained in depth knowledge and research orientation on machine learning.
- Faculty gained ability to use various machine learning algorithms in their relevant areas.
- Faculty gained knowledge to apply clustering and classification algorithms.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)

Sree Sainath Nagar, A. Rangampet – 517 102

Department of Computer Science and Systems Engineering

One week faculty development programme on **ADVANCED TOOLS FOR DATA ANALYTICS**

The Department of CSSE organized FDP on “**Advanced Tools for Data Analytics**”, 21st-25th, November 2016 under TEQIP – II.

This FDP mainly focused on advanced tools available for data analytics such as Rapid Miner, R, Hadoop eco-system, Spark, Hive, Mongo DB, NoSQL databases with Neo4j and Data Visualization using Tableau. The faculty from different colleges across the nation attended the FDP.



Dr. Venkatesan Meenkshi Sundaram, Associate Professor, VIT University, Vellore, gave a detailed presentation on Conventional methods for data analytics, openware tools available for data analytics. He demonstrated knowledge mining phases like data preprocessing, classification, prediction and clustering techniques using Rapid Miner.

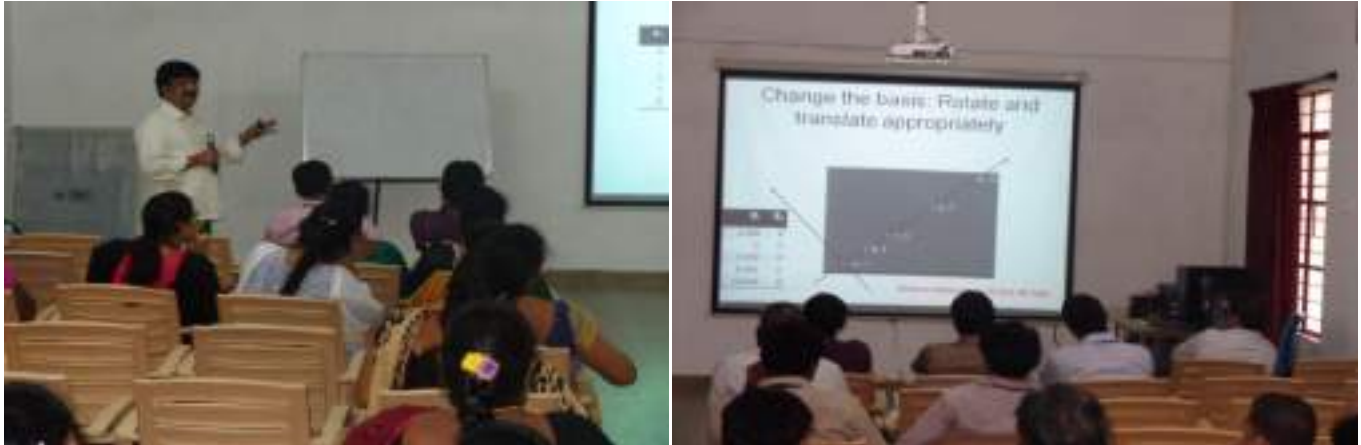


Mr. M. Raghavendra Reddy, Technical Lead, Ingersoll Rand, Chennai, discussed on advanced tools available for data analytics such as Hadoop eco-system, Map Reduce frame work, Hive, Spark and Scala. Demonstrated Hive and Spark with sufficient examples in the laboratory.



Dr. P Siva Kumar, Associate Professor, Department of CSSE, Sree Vidyanikethan Engineering College(Autonomous), Tirupati, delivered a talk on Web Mining.

Dr. Viswanath Pulabaigari, Visiting Professor (Full Time), IIIT Chittoor, Sri City, Andhra Pradesh. delivered a session on data extraction techniques such as Principle Component Analysis, Singular Value Decomposition and Support Vector Machine.



Prof. Ramesh Ragala, Assistant Professor(SL), SCSE,VIT - Chennai, has delivered sessions on R programming, Analytics with R, Hadoop Installation and commands (pseudo mode setup) and Integration of R and Hadoop. He demonstrated these in the laboratory with practical examples.



Prof. Tulasi Prasad Sariki, Assistant Professor, SCSE, VIT - Chennai, has delivered sessions on NoSQL databases Hands-on with MongoDB and demonstrated these in the laboratory with practical examples.

Dr. Parvathi R, Associate Professor, SCSE,VIT - Chennai, demonstrated sessions on NoSQL databases with Neo4j and Data Visualization using Tableau.



Dr.Pattabiraman.V, Associate Prof. SCSE, VIT - Chennai, delivered and demonstrated sessions on Big Data & Hadoop Echo System and Hadoop MapReduce programming.





SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet – 517 102

Department of Computer Science and Systems Engineering

An Expert Lecture on "ADVANCES IN MOOC'S AND E-LEARNING"

The Department of Computer Science and Systems Engineering organized an expert lecture on **"ADVANCES IN MOOC'S AND E-LEARNING"**, by **Prof. A. S. N. Chakravarthy**, Dept. of Computer Science and Engineering, Coordinator MOOCs Jawaharlal Nehru Technological University Kakinada. The lecture was organized on 06-02-2017 for Internal BOS members and senior faculty of SVEC.

Prof A.S.N. Chakravathy discussed on Emerging trends in online Learning and Massive Open Online Courses (MOOCs) in Education. He explained the evolution of technology, typical MOOCs structures. He had also explained about the some MOOCs initiatives such as NPTEL videos, online courses, web links, R campuses, edX, Coursera, UDACITY etc.

Finally the session concluded by explaining the cost and effort in the involved in development of MOOCs. How the faculty and how the students will be benefited by MOOCs.



Prof. A. S. N. Chakravarthy, delivering the lecture



Students listening the lecture

The few outcomes are listed below:

1. Total number of Intenal BOS member and senior faculty attended are 25.
2. Faculty members understand emerging trends in online Learning and Massive Open Online Courses (MOOCs)in Education .
3. Faculty members know cost and effort in the involved in the development of MOOCs.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, A. Rangampet – 517 102

Department of Computer Science and Systems Engineering

A Three Day Faculty Development Program on

“Cryptography: Foundations and New Directions in Research”

The Department of Computer Science and Systems Engineering organized a Three Day Faculty Development Programme on **“Cryptography: Foundations and New Directions in Research”**, during 16th-18th February, 2017 under TEQIP-II.

This FDP mainly focused on Advances in Cryptography, Public Key Cryptosystems, Block Chain Technology, Applications of Public Key Cryptosystems, Post Quantum Cryptography and Randomness. The members of faculty from different colleges across the nation attended the FDP.



Dignitaries at the inauguration of the FDP

Shri. Girish Mishra Scientist-D, SAG, DRDO, New Delhi; **Dr. Sahadeo Padhye**, Assistant Professor, MNNIT, Allahabad; **Dr. Vishal Saraswat**, Assistant Professor, **C.R.Rao**, AIMSCS, Hyderabad; **Dr. P.V.S Anand**, Associate Professor, **C.R.Rao**, AIMSCS, Hyderabad were the resource persons of the FDP.

Shri. Girish Mishra, Scientist-D from DRDO delivered the keynote address on “Cryptology: Security Everywhere” on 16th February 2017. In his lecture, he explained the various cryptosystems and basics of cryptography. In the next

Session, **Dr. M Naresh Babu**, Associate Professor, Department of CSSE, Sree Vidyanikethan Engineering College enlightened the audience on Secret Sharing Schemes, Cryptanalysis of Reduced Round DES and Lightweight Crypto- systems. In his talk he demonstrated how a secret can be revealed through t-1 shares by using SMT solver. He explained various light weight cryptosystems- salsa, LEA - useful for constrained devices like RFID card, sensor networks etc.



Shri. Girish Mishra, DRDO delivering the keynote address



Audience during keynote Address

Sahadeo Padhye, Assistant Professor, MNNIT, Allahabad, delivered a talk on Public Key Cryptosystem. In his lecture, the internals of Diffie-Hellman and RSA Cryptosystems were expounded upon.

During the second day, "Block Chain Technology (BITCOIN)" was explicated by Shri Girish Mishra. In his lecture, he explained the recent technologies in Cryptography which can succour virtual cash transactions. In the second session, Dr. Sahadeo Padhye delivered a talk on Public Key Cryptosystem, explaining the internals of ElGamal and Knapsack cryptosystems.



Dr. Sahadeo Padhye, delivering a talk on Public Key Cryptosystem



Dr. P.V.S Anand's session on application for Cryptanalysis.

Dr.Vishal Saraswat, Assistant Professor, C. R. Rao, AIMSCS, presented a talk on "Public Key Cryptosystems and its Application". The last session of the second day was handled by Dr. P.V.S Anand, Associate Professor, C. R. Rao, AIMSCS, Hyderabad, who elucidated the internals of SMT Solver and the usage of "SMT Solver as an Application for Cryptanalysis".



Dr.Vishal Saraswat, presentation on Public Key Cryptosystems and its Application



The participants listening ardently

On the third day, Dr. Vishal Saraswat delivered a talk on "Post Quantum Cryptology". He illustrated the new theories to build the new cryptosystems to withstand the Quantum Computers. Later, Dr. Sahadeo Padhye delivered a talk on "Digital Signatures", demonstrating the different signature mechanisms. He also provided enlightenment on Security Analysis. The final session was by Dr. P.V.S Anand on "Randomness". He explained how random number generators are used in the Cryptology.



The participants of the three day FDP on "Cryptography: Foundations and New Directions in Research"

40 Faculty participated and gained knowledge on Cryptography: Foundations and New Directions in Research.

The Several outcomes are as follows:

- ❖ Gain knowledge on basic principles of applied cryptography, including classical cryptography, modern secret key and public key cryptography.
- ❖ Identify Research Problems in the area of Cryptography.
- ❖ Participants can acquire skills in Cryptanalytic attacks.
- ❖ Understanding security (attacks and defenses) in complex real life systems and the role of keys, cryptographic algorithms and protocols.
- ❖ Hands-on Experience-Attacks on existing Ciphers viz DES, SHA-1 etc..
- ❖ Learn basic techniques to protect data in computer and communication environments against several different varieties of fraud.

Two Day National Seminar on “Internet of Things (IoT):

Scope for Future Research and Business”

The Department of Computer Science and Systems Engineering organized Two Day National Seminar on **“Internet of Things (IoT): Scope for Future Research and Business”** sponsored by Department of Science and Technology (DST-SERB) on 24th & 25th October, 2016. **Dr. A Paventhan, Dr. B Narendra Kumar Rao, Mr. R P Chetan, Dr. Ravi Kishore Kodali and Mr. Jaya Prakash** are the resource persons. Faculty from different colleges gained knowledge on Internet of Things, IoT Kits and different areas where IoT is being implemented.

During the first session, Dr. A Paventhan, Additional Director (R&D), ERNET, Bangalore, discussed on Internet of Things and mentioned some real world examples where it has been implemented so far.



Dr A Paventhan discussing on Internet of Things (IoT)

In the next session, **Dr B Narendra Kumar Rao**, Professor & HOD, Dept. of CSSE, SVEC, discussed on Internet of Things for Smart Cities.



Dr. B Narendra Kumar Rao Discussing about IoT for Smart Cities

In the second session, **Mr. R P Chetan**, Director & Founder, ERT Tech Bangalore, discussed on IoT Application Development using IoT kits like Arduino, Raspberry Pi etc.,. Also, he demonstrated few experiments related to IoT using Arduino Microcontroller.



Mr R P Chetan demonstrating IoT Microcontroller Kits

On the second day of the workshop, Dr. Ravi Kishore Kodali, Associate Professor, Dept. of ECE, NIT Warangal, spoke about research issues in Internet of Things. He demonstrated experiments using IoT Mobile Applications.



Dr Ravi Kishore Kodali discussing on research issues of IoT

In the last session of the workshop, Mr. Jaya Prakash discussed on how Health Care area in Internet of Things is getting a lot of focus.



Mr. A Jaya Prakash discussing on Health Care applications in IoT

50 participants gained knowledge on

1. Internet of Things (IoT) and its importance in real world.
2. IoT and its applications to smart cities.
3. IoT application development using Arduino and Raspberry Pi
4. IoT and health care applications.

Department of Computer Science and Systems Engineering

A Two Day National Workshop on

“Recent Advances in Bioinformatics and Medical Image Analysis”

The Department of Computer Science and Systems Engineering organized Two Day National Workshop on **“Recent Advances in Bioinformatics and Medical Image Analysis”** sponsored by DST-SERB on 18th & 19th November, 2016. Dr. DVS Bhagavanulu, Director, Dr. I Sudarshan Kumar, Chief Operating Officer, Dr. K Ramani, Prof. and Head of the Dept. IT and Dr. B Narendra Kumar Rao, Prof. and Head of the Dept. CSSE were present doing the inauguration.



Dr. D. V. S. Bhagavanulu, Director, during inauguration



Dr. I. Sudarshan Kumar, COO, during inauguration



Dr. B. Narendra Kumar Rao, HOD, CSSE, during inauguration



Dr. K. Ramani, HOD, IT, during inauguration

Dr. DVS Bhagavanulu addressed the gathering and mentioned that the image processing techniques are also useful in Civil Engineering applications. Dr. I Sudarshan Kumar expounded that there are many research opportunities with the intersection of various disciplines and also discussed the necessity of identifying new drugs / computational chemistry. **Dr. B. Narendra Kumar Rao** highlighted various applications in Bioinformatics and Medical Image Analysis.

Prof. K Ramani, Prof. Jayanthi Sivaswamy, Prof S Jyothi, Dr. P Sateesh, Dr. G Ramesh Kumar and Dr. M Naresh Babu are the resource persons for this workshop. Faculty from different colleges gained knowledge on Image Processing, Medical Image Analysis and Deep Learning, Research opportunities and challenges in transdisciplinary area, Big Data and Next Generation Sequencing (NGS) and also how to Identify Single Drug Multiple Targets for Diabetes Mellitus.

During the first session, **Prof K Ramani**, Head of the Dept. of IT, SVEC, enlightened audience with fundamentals of image processing and explained different applications of digital image processing. She also explained various types of noise in the images and various types of filters.



Dr. K. Ramani, delivering a lecture on image processing to the members of faculty



Dr.K.Ramani and faculty of CSSE, presenting a memento



Prof. Jayanthi Sivaswamy discussing on Medical Image Analysis



Prof. Jayanthi Sivaswamy delivering an interactive lecture to the faculty

In the next two sessions, **Prof Jayanthi Sivaswamy**, IIIT Hyderabad, explained about Medical Image Analysis with its Applications and Challenges in acquisition and processing.

On the last session of the first day, **Prof. S Jyothi**, Sri Padmavathi Mahila Viswavidyalayam, Tirupati shared her knowledge on Deep Learning : Medical Image Analysis and also explained how Neural Networks and Machine Learning is applied for medical image analysis.



Prof. S Jyothi discussing on Deep Learning in Medical Image Analysis

On the second day of the workshop **Dr. P Sateesh**, Professor, Maharaj Vijayaram Gajapathi Raj College of Engineering, Vizianagaram, explained on basics of informatics and various opportunities in Bioinformatics and explained basics of Bioinformatics.



Dr. P Sateesh explaining research opportunities and challenges in transdisciplinary areas



Faculty from various institutes listening to the lecture of Dr. P. Sateesh

Later **Dr. G Ramesh Kumar**, AU-KBC Research Centre, Chennai enlightened various biological databases and explained how Big Data analytics can be applied to NGS data and also mentioned about cloud for Bioinformatics applications.



Dr. G Ramesh Kumar discussing about NGS - Big Data

During the last session of the workshop, Dr. M Naresh Babu, Associate Professor, CSSE Dept., Sree Vidyanikethan Engineering College, Tirupati dealt how network centralities can be applied to Biological Networks to identify most influential proteins.



Dr.M. Naresh Babu delivering a lecture to the faculty

The outcomes of the workshop are listed below:

1. Total number of faculty members and Research Scholars attended are 80.
2. Faculty and students were enlightened with latest innovations in the foundations, theories, models and applications for multi disciplinary research, encompassing Molecular Biology, Structural Biology, Structural Bioinformatics, Computer Aided Drug Design and Medical Image Analysis.
3. Integrate multi disciplinary areas for new innovational research initiations in the field of Bioinformatics and Medical Image Analysis.
4. Faculty and Students understood various biological databases that help how Big Data analytics can be applied to NGS data.



SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)

Sree Sainath Nagar, A.Rangampet-517 102

Department of Electronics and Communication Engineering

Program Details: Hands on Training on, “**Embedded System Design using MSP430 & Tiva Series Launch pads & booster packs**”

Date of the Program: 08-09 March 2017

Organizing Department: Electronics and Communication Engineering

REPORT

The event started sharp at 10.00 AM in Embedded Lab (Room No. 303) by Mr. P. Madhu Kumar, Asst. Prof (SL) of the department addressing the participants about the importance of the Program. The participants for the lab training session were 08 PG students from M. Tech (DECS) and 20 students of III B. Tech ECE. Resource Person Mr. Ganesh Motte, Product Engineer, EdGate Technologies PVT. LTD., Bangalore took over the session.

08-03-2017 (FN):

Introduction to MSP430 family of processors from TI, Features of MSP430, on-chip resources available in MSP430, Eclipse IDE, Installation and usage of Code Composer Studio Version 6, Energia were covered

08-03-2017 (AN):

Hands on training for programming MSP430G2559/G2553 using CCSV6 & Energia for various tasks like blinking LEDs, Reading switches, Parallel I/O port access, WDT, Timers, Interrupt programming exercises were practiced.

09-03-2017 (FN):

Resource person discussed various communication standards like SPI, UART, I2C, JTAG and various embedded C programming abilities necessary for embedded workload modeling . He also covered Operating System related issues and their usage on this platform in real time systems.

09-03-2017 (AN):

Participants practiced embedded programming using various booster packs like WIFI, Sensor Hub, Sharp LCD –features and usage with MSP430, Tiva C series launch pads. Real time mixed signal processing related discussion happened in this session.

The program concluded by taking feedback from the participants with query clarification session regarding projects that can be undertaken by the students.

The snapshots covering various phases of the event are:



Resource Person discussing practical aspects in using various on-chip resources available for MSP430G2559



Hands on Training using MSP430G2559 on-chip Resources



Demonstration by resource person on Educational booster pack using Energia



Students demonstration establishment of communication between MSP430F5529 Modules using SPI standard

Convener



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, Tirupati – 517 102

Department of Electronics and Communication Engineering

Report

on

One Week National Workshop on “**Emerging Trends in VLSI & Signal Processing**”
Under TEQIP-II during **22-27 August 2016**

The workshop is of its first kind organized by ECE Department of Sree Vidyanikethan Engineering College inviting around 8 number of Eminent Resource persons from MNIT-Jaipur, CMR Institute of Technology-Benguluru, Jadavpur University-Kolkata, Pondicherry Engineering College-Pondicherry, NITK-Suratkal.

The workshop received tremendous response with 85 number of participants out of which 19 are faculty from various engineering colleges and 66 are from various departments of Sree Vidyanikethan Engineering College (In-house).

22 Aug. 2016 (I Day):

The event started with registrations on 22 August 2016 sharp at 8.30 AM followed by the key note address of the convener describing participants the necessity to upgrade their knowledge and promote research culture which is the need of the hour.

The first session was by Dr. Amit Mahesh Joshi, Asst. Professor from MNIT Jaipur on Architectural level optimization techniques. Various concepts like pipelining, parallelism, Retiming was discussed.

The second session after the tea break was by Dr. Satyasai Jagannath Nanada, MNIT Jaipur discussing applications of adaptive signal processing & Artificial intelligence in signal processing domain.

The narrow lunch break was followed by hands on training on Xilinx Spartan 3E –FPGA based implementation assisted by both the resource persons. Various examples regarding implementation of architectural level optimization techniques were demonstrated.

23 Aug. 2016 (II Day):

Morning session was by Dr. Satyasai Jagannath Nanada discussing various issues in signal processing domain where research can be carried out.

The following session was by Dr. Amit Joshi on recent trends in VLSI domain and research issues that can be carried on in VLSI domain.

The lunch was followed by hands on training in implementation of various Filters, System identification, Adaptive filtering using MATLAB assisted by both the resource persons.

24 Aug. 2016 (III Day):

On the third day Dr. H N Shankar, Dean-Academics & Research, C M R Institute of Technology, Bengaluru discussed about Fourier series and Dirchlets conditions derived from scratch, research avenues in signal processing domain.

On the very day during the second session Dr. R. Muralishankar, Professor, CMR Institute of Technology, Bengaluru discussed Speech Processing and related research areas.

During the afternoon session Mr. Rahul Nyamangoudar, Assistant Professor, CMR Institute of Technology, Bengaluru demonstrated usage of DSK6713 to program one of the twelve on chip codec to generate speech signal and feel how sine with various sampling frequencies feel for our ears and eyes. Various speech processing concepts were demonstrated and practiced during this session under the guidance of three resource persons of the day.

25 Aug. 2016:HOLIDAY: SRI KRISHNASTAMI

26 Aug. 2016 (IV Day):

On 26th Dr. Subir Kumar Sarkar, Professor and Former Head, Department of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, West Bengal hosted the session who was one among few researches in india talk about nanoelectronics and the hunger for power reduction in spintronic devices, Single electron Devices for two session with a narrow tea break in between.

Following the lunch Ms. R. Sandana lakshmi, Department of Electronics & Communication Engineering, Pondicherry Engineering College, Pondicherry, young researcher who have changed her gear from wireless communications to Biomedical signal processing applications for serving sick India talk about bio signal processing concepts and research avenues in the domain. She motivated participants in publishing papers, filing patents for societal up-liftment.

27 Aug. 2016 (V Day):

On 27 August we had Dr. Pathipati Srihari garu from NITK, Surathkal discussing VLSI signal processing issues and related research avenues during the first two sessions.

During the afternoon session various research opportunities in VLSI signal processing domain were inquired and research related queries from the participants were clarified by the resource person. The technical and query session were followed by short panel discussion on research trends among the participants and resource person. The session and the workshop closed with feedback collection (written, oral), Distribution of participation certificates and a group photo.

The following were the snapshots which give quick glance at activities happened during the period of the workshop during 22-27 August. 2016



Workshop Registrations on 22 Aug. 2016



Participants listening to Dr. Amit Joshi's lecture on Architectural level optimization techniques



Dr. Satyasai Jagannath Nanada discussing various adaptive signal processing applications



Hands on Training for FPGA Implementation using Spartan3E Xilinx FPGA Tools



Participants interacting with Resource person on 23 Aug. 2016



Resource person lecturing on folding with example



Hands on Training in MATLAB for System Identification



Dr. H. N. Shankar on third day demonstrating Signal processing concepts using MATLAB



Dr. R. Muralishankar discussing Speech Processing and related research areas



Hands on Training by resource persons demonstrating speech processing related concepts using MATLAB



Welcoming Dr. Subir Kumar Sarkar to give lecture on Nano Electronics



Resource Person interacting with participants regarding challenges in Nano Electronics domain



Ms. R. Sandana lakshmi resource person for the session discussing recent trends in Bio-signal Processing domain



Dr. Pathipati Srihari (Resource Person) from NITK, Surathkal discussing VLSI signal processing issues and related research avenues.





Participants clarifying their research queries



Participants receiving certificates from Dr. C. Subhas, Dean Academics & Professor of ECE Department.



Participants (External & Internal) group photo



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

SreeSainath Nagar, Tirupati- 517102

Department of Electrical and Electronics Engineering

TWO DAY NATIONAL CONFERENCE

Two day National Conference on SMart grid And Renewable Technologies”- (SMART’16) is organized by Dept of EEE under TEQIP-II during 21st & 22nd, October 2016.

The prime motive of this conference was to encourage intrusive and research bent of minds of the talent pool of faculty and students of UG, PG & research scholars. This conference emphasized on advanced research areas and evolving technologies, patterns in the field of SMART GRID and RENEWABLE energy technologies. This conference brought together the people from academia, industry, engineering, and administrative organizations around the country and exchanged novel ideas, discussed innovative designs exploring enabling technologies and open problems and shared field trial experiences in smart and clean energy areas.

This conference attracted many papers from different institutes in different areas, out of which only 30 papers were selected for presentation.

The event was inaugurated by the Chief Guest Dr. Rama Krishna Kappagantu IEEE R10 (Asia-Pacific) Director and former employee of Power Grid Corporation. He delivered speech on importance of Smart grid for the present and future scenarios.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, Tirupati – 517102

Department of Electrical and Electronics Engineering

A two day Skill Development Programme on “**Hardware implementation and Troubleshooting of Power Electronic Converters**”

A two day Skill Development Programme on “**Hardware implementation and Troubleshooting of Power Electronic Converters**” is organized under TEQIP-II for IV B.Tech Students of Electrical & Electronics Engineering and M.Tech students of Electrical power systems in Simulation Lab on 15th & 16th October, 2016.

On 15th October, 2016 the first day morning session was handled by Dr. Elangovan D, Associate Professor, School of Electrical Engineering, VIT University. He explained about the importance of Power Electronics and its applications in various Electrical Engineering fields. Also he gave brief knowledge on recent trends in power electronics, problems associated with the integration of renewable energy to the grid, necessity of green power, fuel cell type renewable energy conversion and explained about his recent projects in power electronics.

The session pre lunch was taken by **Mr. D.S.B. Nagasudhan**, Design Engineer, Raana Semiconductor Pvt. Ltd., Salem. He explained in detail about the different types of rectifier circuits and also gave hands-on training on designing of different rectifier circuits.

The session post lunch was taken up by **Mr. G. Arunkumar**, Assistant Professor (Sr.), School of Electrical Engineering, VIT University, who gave detailed information about Single phase thyristor bridge rectifier along with firing circuits and control strategies. He also gave a hands-on training session on design and implementation of the single phase half bridge rectifier circuits with UJT firing for R-load.

On 16th October, 2016 morning session was continued by Mr. G. Arunkumar and he explained about DC-DC boost converter and its applications. He also explained the problems that are commonly faced during the design and implementation of power electronic circuits. A Hands-on training session was also held on designing a DC-DC boost converter with the help of **Atmega-328** microcontroller. The participants were introduced to Arduino programming software for writing programs for microcontrollers and were also made to simulate the hardware design using PROTEUS simulating tool.

The session post lunch was taken up by **Mr. E. Rajasekhar**, Design Engineer, Raana Semiconductor Pvt. Ltd., Salem. He explained about Single phase/Three-phase two level inverter with Sinusoidal pulse width modulation & multi level inverters and also gave hands-on training on design and implementation of a boost inverter using MOSFETS as switching devices.

The two-day programme session ended with an interactive session with the faculty members, tutors and student participants.



Dr. D. Elangovan Delivering lecture on recent trends in power electronics



Mr. E. Rajasekar showing the working of DC- DC Booster circuit



Mr. G. Arunkumar explaining the design of converter circuits



Mr. E. Rajasekhar and Mr. B. Nagasudhan explaining the troubleshooting of converter circuit.

REPORT

The Department of EIE has organized FDP on “**Advancements of Image and Video processing**” on **30-09-2016** & **01-10-2016**.

The resource persons were **Dr. Badri Narayan Subudhi**, Assistant Professor, Department of ECE, National Institute of Technology, Farmagudi, Ponda, Goa.

Dr. Amol D Rahulkar, Assistant Professor, Department of ECE, National Institute of Technology, Farmagudi, Ponda, Goa.

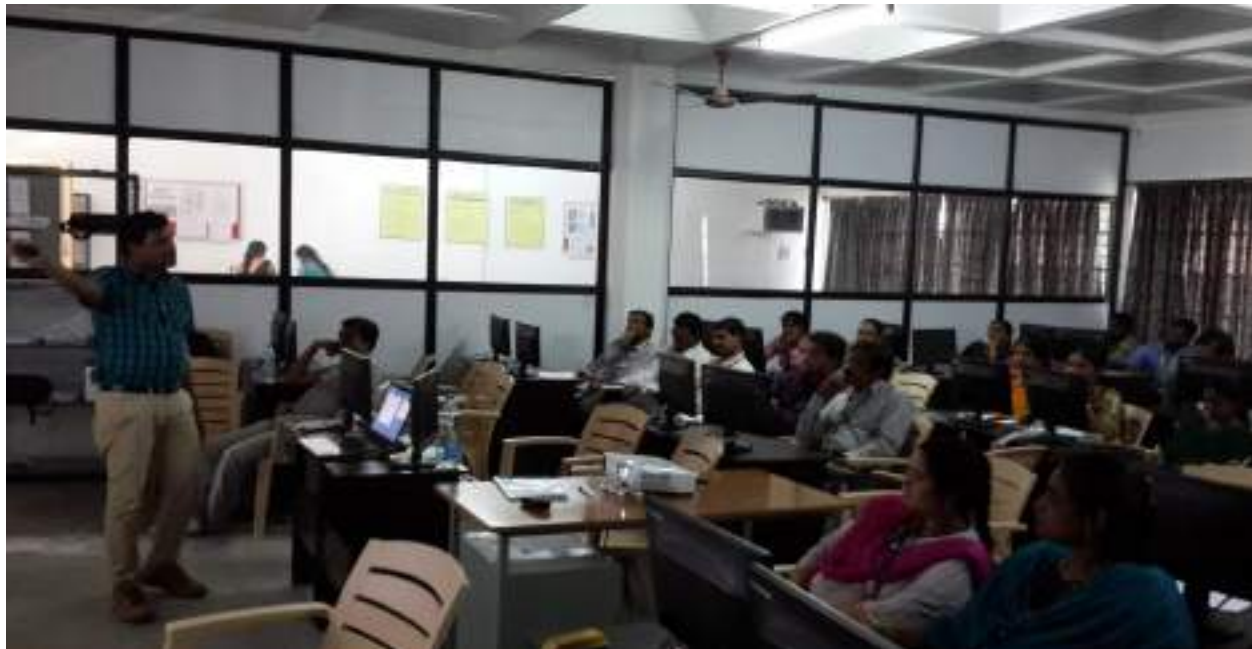
Dr. T Veera Kumar, Assistant Professor, Department of ECE, National Institute of Technology, Farmagudi, Ponda, Goa.

. The following topics were covered.

- Introduction to Image & video analysis
- Image processing with MATLAB
- Introduction to Wavelets
- Design of Wavelets
- Introduction to video compression
- Object Tracking from Video Images
- Change Detection in Remotely sensed Images

Faculty (E & C branches) from and students from various departments and colleges have attended the workshop.

Photos



Dr Badri Narayan Subudhi Delivering the lecture on Identification and tracking of the objects from an video and remotely sensed images.



Dr Amol D Rahulkar explaining the concepts of wavelets and the applications of wavelets for image processing techniques and fundamentals on IRIS recognition.



Dr T Veera Kumar delivering the lecture on the fundamentals of image processing and various techniques that can be implemented for processing of an image.

Convener

**Ms. V. Kalpana, M.Tech,
Asst.Professor, Dept. of EIE, SVEC**

REPORT

The Department of EIE has organized Workshop on “**COMSOL 5.2 & Application Builder**” on 29th July 2016.

The resource person was **Mr. Roopak Mayya**, Technical Sales Engineer, COMSOL MultiPhysics Pvt Ltd., Bengaluru. The following topics were covered.

- Introduction to COMSOL 5.2 Multiphysics
- Different Modules available in COMSOL 5.2
- Modeling in Comsol Multiphysics
- Demo on Application development using COMSOL 5.2.
- Hands-on using COMSOL 5.2
- Able to develop Application using COMSOL 5.2.
- Practice Examples on COMSOL.

A Total of 40 faculty and students from various departments and colleges have attended the workshop.

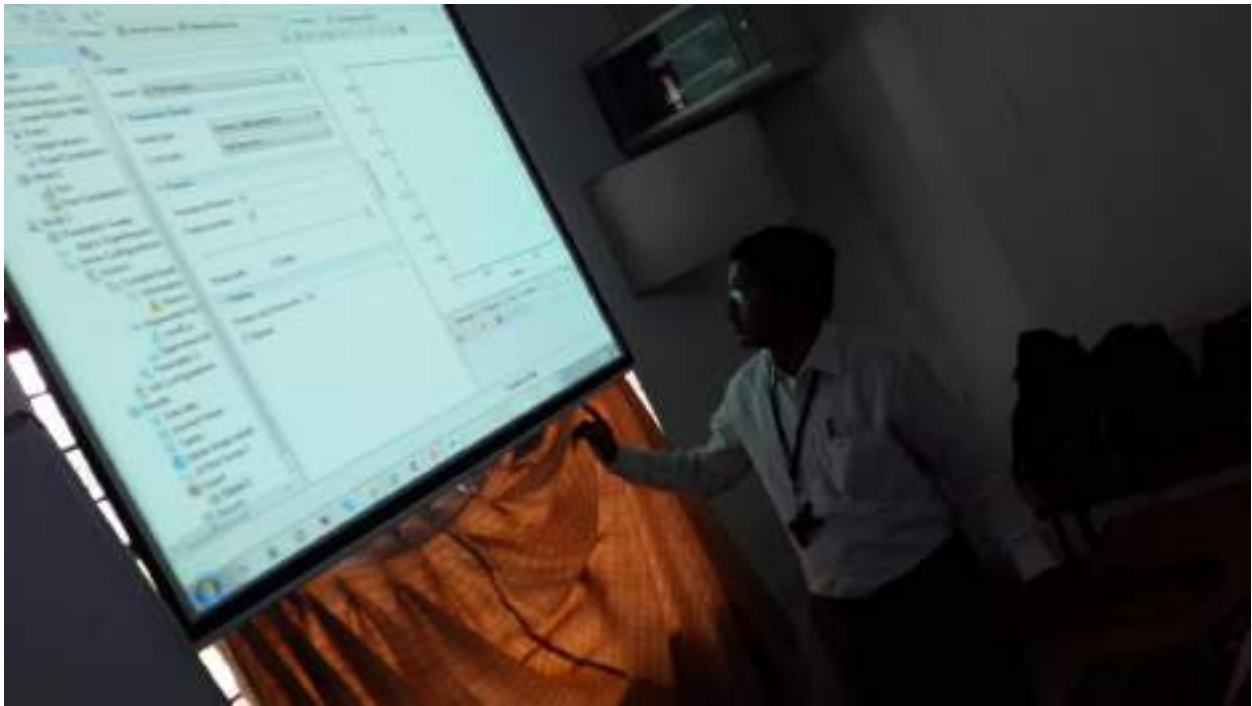
Photos



Mr. Roopak Mayya Delivering lecture



Mr. G. V. Sunil Kumar Delivering lecture



Mr. G. V. Sunil Kumar Delivering lecture

Convener

**Mr. M. Srikanth, M.Tech, M.E.E
Asst.Professor, Dept. of EIE, SVEC**

Department of Electronics and Instrumentation Engineering

REPORT

The Department of EIE organized a One week Faculty Development Programme on MEMS Design and its Applications during **24-28 October 2016**.

The program started with Inaugural function at 10:00 AM. Dr. Nitin S Kale was the chief guest and Dr. Lazar Mathew was the Guest of Honour.

The following experts were the resource persons:

1. **Dr. Nitin S Kale**, Co-founder and CTO, Nanosniff Technologies Pvt. Ltd. Mumbai.
2. **Mr. Niranjnraj Sundaram**, Nanosniff Technologies Pvt. Ltd. Mumbai.
3. **Mr. Gaurav Valecha**, Nanosniff Technologies Pvt. Ltd. Mumbai.
4. **Dr. L.Sujatha**, Professor of ECE, Rajalakshmi Engineering College, Chennai.
5. **Mr. K.Sripada Raja**, Director, Sridutt Technologies Pvt. Ltd, Bangalore.
6. **Dr. V.R.Anitha**, Professor, Department of ECE, SVEC, A.RAngampet.
7. **Dr. V.Velumurugan**, Associate Professor, IIT, Hyderabad.
8. **Dr. Rama Komaragiri**, Professor and Head, Bennet University, Noida.
9. **Dr. Ashok Kumar Pandey**, Associate Professor, IIT, Hyderabad.
10. **Dr. Prem Pal**, Associate Professor, IIT, Hyderabad.
11. **Prof. M.M Nayak**, IISc, Bangalore.

A total of 70 faculty members were benefited by attending this programme.

The Outcomes of the program:

1. Gained knowledge on importance and working of MEMS devices like Biosensors, MEMS accelerometers, RF MEMS.
2. Gained knowledge on microfabrication technologies and processes.
3. Gained knowledge on packaging technologies of MEMS devices.
4. Faculty will be able to teach MEMS and Microsystems for SVEC14 students more effectively.
5. Can guide student projects in MEMS.



Dignitaries on the dais during the inaugural session.



Greeting the Chief Guest Dr. Lazar Mathew with a bouquet.



Dr. Nitin S Kale delivering a lecture



Cross section of participants



Prof. M.M.Nayak delivering a lecture



FDP Coordinator addressing the gathering



Dignitaries during the valedictory session



Dr. Prem Pal addressing the audience



Dr. I Sudarshan Kumar addressing the audience



Distribution of participation certificate

Department of Electronics and Instrumentation Engineering

REPORT

The Department of EIE organized two day workshop on PIC and ARM Microcontrollers during **27-28 December 2016**.

The program started with Inaugural function at 10:00 AM with prayer song, after that the resource persons are introduced to the participants.

The Head of the Department **Dr.M.Saravanan** presides over the function.

The following were the resource persons:

1. **Vikas Rapuru**, Technical Director, TechnoTran, Hyderabad.
2. **Punna Eshwar**, Product Design Engineer, TechnoTran, Hyderabad.

A total of 50 faculty members were benefited by attending this programme.

The Outcomes of the program:

1. Gained knowledge on hardware implementation of the PIC & ARM microcontrollers.
2. Gained knowledge on software development flow and working with various projects.
3. The participants know how to Interpret and apply practical concepts in the domain of embedded systems.
4. The participants can have ability to take up UG and PG projects with real time problems and continue research in the field of embedded systems.



Mr.Vikas Reddy explaining about PIC Microcontroller Programming concepts during the session.



Mr. Punna Eshwar explaining the Interfacing of LCD and temperature sensor to PIC16F877.



Corss sectional view of participants during the session.



Mr. Punna Eshwar clearing the doubts raised by participants.



Mr. Vikas Reddy addressing the participants.

**SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar Tirupati- 517102**

Department of Electronics and Instrumentation Engineering

**A Report on Two Day National Seminar
on
“Smart Instrumentation for Smart City”
Under TEQIP II**

1st & 2nd December, 2016

A Two Day National Seminar was organized by the Department of Electronics and Instrumentation Engineering on “**Smart Instrumentation for Smart City**” under TEQIP-II on 1st & 2nd December, 2016.

Sri.K.R.S.R. Krishna, Vice- President, Petrofac International, UAE., Dr. Mihir Bholey, Head, Design and Research, National Institute of Design, Ahmedabad., Dr.K. Srinivasa Reddy, Professor, IIT Madras., Suravarapu Venu Gopal Rao, AGM, Jindal Steels are the resource persons. Faculty from different colleges gained knowledge on design and application of innovative approach to build smart cities of India.



During the first session, **Sri. K.R.S.R. Krishna, Vice- President, Petrofac International, UAE.**, discussed about inclusive development. Also he mentioned about how smart cities are meant to rejuvenate the ailing urban system, improve infrastructure, quality of life and achieve sustainability.



The following session was delivered by **Dr. K.Srinivasa Reddy, Professor, IIT Madras.**, He delivered a lecture on projects involved in Smart Cities related to solar Power, insights about Solar Energy for Industries.



On the second day of the seminar, **Dr. Mihir Bholey, Head, Design and Research, National Institute of Design, Ahmedabad**, spoke about design interventions for smart cities. He presented the imperative role of instrumentation in designing quality infrastructure and formulating solutions for basic amenities such as water, sanitation, solid waste management, transportation among others.



In the last session of the program, **Suravarapu Venu Gopal Rao, AGM, Jindal Steels** enlightened about role of technology management to surpass various challenges in smart cities bound to encounter during their developmental process.

Convener



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102, A.P.

DEPARTMENT OF BASIC SCIENCES & HUMANITIES

A Report on

**AN ACTIVITY-BASED LEARNER-CENTERED WORKSHOP ON PHONETICS
AND SPOKEN COMMUNICATION SKILLS**

(Under TEQIP-II)

21 December 2016

An **Activity-based Learner-centered workshop on Phonetics and Spoken Communication skills** was organized by the Department of Basic Sciences and Humanities under TEQIP-II on 21st December, 2016.

Prof. T. Gopala Rao, the Special Officer of Sree Vidyanikethan Educational Trust, was the Chief guest for the inaugural function of the workshop. The Chief Operating Officer Dr. I. Sudarshan kumar, Dr. P.C. Krishnamachary, the Principal of SVEC, and Dr. B. Mohan, the Director of SVIM graced the occasion.

The resource person, Dr. Z. N. Patil, Professor of English and Head of the Department of Training and Development from English and Foreign Languages University, Hyderabad in his keynote address accentuated on the importance of simple language. He made it clear that simple present, past, and future tenses are sufficient to speak and understand English fluently.

In the first session of the workshop, Prof. Patil expounded on basics of communication. He exemplified the fundamentals of communication with anecdotes and made the session lively. During the second session, Prof. Patil emphasized the need of coherence and cohesion for effective communication skills. He showed videos and made the members of faculty participate in a speaking activity.

In the afternoon sessions, the participants were provided hands-on practice on skills and language aspects like reading, writing, pronunciation, vocabulary and grammar. The participants had a fun-filled learning experience all through the day. They expressed their wish to have many such programs quite frequently to rejuvenate self and enhance communication skills.

The one day workshop ended with a valedictory function. Head of the Department Dr. A.V.M. Prasad read a report followed by valedictory address by the Chief Operating Officer Dr.I. Sudharsan Kumar. Prof. Patil was felicitated as a token of gratitude. About 120 members of faculty participated in the workshop and were benefitted.



Special Officer Prof. T. Gopala Rao delivering his speech in Inaugural of the workshop



Prof. Z. N. Patil, Head, Dept. of Training & Development from English and Foreign Languages University, Hyderabad handling a session in the workshop

A Three Day Faculty Development Program on "Grid and Cloud computing"
20-22 October, 2016
Under TEQIP – II



Dr. P. Varalakshmi, Associate Professor, Anna University, Chennai



Dr. Pethuru Raj, Cloud Architect, IBM



Mr. Kailash. S, Manager, CDAC



Mr. Mahendran. E, Manager, CDAC



Receiving Oral feedback from the Participants in the Valedictory Function by Convener **Dr. K. Ramani**

**A ONE-DAY RESEARCH ORIENTED WORKSHOP
ON
'NEW INNOVATIONS IN CLOUD COMPUTING FOR BIG DATA APPLICATIONS'**

Department of 'Information Technology', Sree Vidyanikethan Engineering College (Autonomous) organized a one day Research oriented workshop on '**New Innovations in Cloud Computing for Big Data Applications**' on 13th August, 2016 under TEQIP-II.

Dr. Rajkumar Bhuyya, Director, Clouds Lab, University of Melbourne, Australia, **Dr. S. Thamarai Selvi**, Professor of CSE, Anna University, Chennai & **Dr. E. Srinivasa Reddy**, Professor & Head., Dept., of CSE, Acharya Nagarjuna University, Guntur were the Resource Persons.

The resource persons, through knowledge sharing and interaction enlightened participants in the frontier areas of Cloud Service Models, Cloud deployment models, Building Enterprise Cloud computing environment, Quality of Big Data Services and Application, Techniques and algorithms for real-time big data analytics and Research trends in Big Data and Cloud. 120 faculty members from various Engineering Colleges in the state of Andhra Pradesh, Telengana, Tamilnadu and Karnataka participated in the workshop.



Dr. Rajkumar Bhuyya, Director, Clouds lab, University of Melbourne, Australia delivering inaugural speech

During his inaugural speech, Dr. Rajkumar Bhuyya shared recent trends and breakthroughs in Big Data & Cloud computing while Dr. Thamarai selvi and Dr. E.

Srinivasa Reddy shared their research oriented works in the areas of Big Data & Cloud Computing.



Dr. E. Srinivasa Reddy, Prof., & Head., Dept. of CSE, ANU delivering inaugural speech



Dr. S. Thamarai Selvi, Prof., of CSE, Anna University, Chennai delivering Lecture



Dr. P.C. Krishnamachary, Principal, Dr. K. Ramani, Head of the Department, IT., Dr. L. Venkateswara Reddy, Workshop convener, Mr. Shaik Munwar, Workshop Co-ordinator and Faculty members of Dept., of IT attended the workshop.

Two Day FDP on "Advanced Web Technologies"

From 23-09-2016 To 24-09-2016



Ms. K. Indraveni, Senior Technical Officer, CDAC, Hyderabad explaining about the Web Application security and, Web Application Vulnerabilities.



Mr. K. Suresh, Senior Project Engineer, CDAC, Hyderabad explaining about Web Development using JQuery

Department of Information Technology

FACULTY DEVELOPMENT PROGRAMME

ON

CYBER SECURITY ISSUES & ETHICAL HACKING

The Department of Information Technology organized a week long Faculty Development Programme (FDP) on **“Cyber Security Issues & Ethical Hacking”**, from **26-30 December, 2016** under TEQIP – II. This FDP mainly focused on advanced tools of Cyber Security. The themes of the FDP included:IDS/IPS : SnortFirewalls like iptables

Vulnerability Assessment tools: Nessus and Intelligence GatheringExploitation tools like MetasploitAnonymization tools like TorWeb Assessment & Exploitation tools: sqlmap, w3af, web hacking and security; Reconnaissance ToolsIoT and Cloud securityForensics case study andLaws and Acts on Cybercrime.

Eminent speakers from reputed and premier institutes & industries shared their knowledge and enlightened the audience with challenges in Cyber Security. Various colleges and institutes sponsored the members of their faculty to this FDP.



Mr. V.Rajendran President, Cyber Society of India, Chennai, delivering his lecture.

Mr. V. Rajendran President, Cyber Society of India, Chennai, is also a cyber forensic examiner from IDRBT and a CeISB from Indian Institute of Banking and Finance. He gave a detailed presentation on Introduction to cyber security issues and the state of cyber security, information security, cyber law and crimes on electronic delivery channels in banking sector.



Dr. C. Chellappan, Principal, GMR College delivering a lecture.

Dr. C. Chellappan, presently the Principal of GKM College of Engineering & Technology (GKM CET), Chennai and former senior Professor and Dean of the prestigious College of Engineering, Guindy, Anna University Chennai, discussed Advances in Network Security Issues, mobile security challenges, Denial of Service Attacks: Tools, Technology and Policy.



Mr. Vijaya Pavan Kumar E addressing the faculty

Mr. Vijaya Pavan Kumar. E, Cyber Security Professional and training consultant working with Global Cyber Security Response Team delivered a session on Intrusion Detection, Prevention Systems and Tools. He elaborated on Snort, Network Security issues, Firewall configurations: iptables, Vulnerability Assessment tool like Nessus, Intelligence Gathering, Exploitation tool: Metasploit, Anonymization tool: Tor. He also demonstrated these topics in the laboratory with real time case studies.



Ms. Shubhamangala Sunil interacting with the faculty.

Ms. Shubhamangala Sunil the Founder Chairperson of Global Cyber Security Response Team (GCSRT) Pvt., Ltd., is also a member of National Cyber Safety and Security Standards Technical Committee. She delivered a lecture on Web Assessment & Exploitation tools: sqlmap, w3af, web hacking and security, Reconnaissance Tools, GHDB, IOT Security, Denial of Service attacks and Distributed Denial of Service attacks and Cloud security. She demonstrated these with practical examples.



Mr. Karthick Vigneshwar P. S. delivering his lecture.

The Director and Technical Advisor for infySEC UK, **Mr. Karthick Vigneshwar P S**' presentation was about Wireshark tool, System Based Hacking, Key-logger Software & Hardware, Nitro Attacks, DDoS Attacks, Ghostnet, Cyber Defamation, Phishing, Suspicious Router Network Scanning Tools, Identity theft and Cloning.



Dr. L Kavi Sankar delivering a lecture.

Mr. Shaik Munwar, Assistant Professor in the department of Information Technology, Sree Vidyanikethan Engineering, handled a session on Ransomware and Various Cyber Crimes.

Dr. L Kavi Sankar, Associate Professor in the department of Information Technology, Sree Vidyanikethan Engineering, delivered a session on Digital Forensics – Integral Part of Information Security.

Dr. K. Ramani, Professor & Head, Department of Information Technology distributed participation certificates to every participant and concluded the programme.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati – 517 102

Department of Information Technology

A One Week Faculty Development Programme
on

“Teaching, Learning and Research”

20-24 June, 2017

Department of Information Technology organized one week Faculty Development Program (FDP) on “Teaching, Learning and Research” during June 20-24, 2017 at Sree Vidyanikethan Engineering College, A. Rangampet. The FDP was organized About 160 faculty members are actively participated and gained useful information from all the sessions.

Day 1: 20-06-2017 (Tuesday)

The faculty Development Programme was inaugurated by **Dr. P. C. Krishnamachary**, Principal, **Dr. D.V.S. Bhagvanulu**, Director, SVEC, **Dr. I. Sudarsan Kumar**, Chief Operating Officer, SVET CEO and **Dr. K.Ramani**, HOD of IT & Convener of the Programme, at 10:00 A.M.

On this Occasion, Dr. K. Ramani, HoD, Dept. of IT, SVEC welcomed all the dignitaries and delegates. In her welcome speech, she highlighted the importance and objectives of organizing this faculty development programme.



Dr. P. C. Krishnamachary, Principal, addressing the gathering on the inaugural function

Session 1:

Dr. D.V.S. Bhagvanulu, Director, SVEC, delivered a lecture on "Attributes of an Effective Teacher" from 10.30 AM – 11.30 AM. The participants interacted with resource person and clarified their doubts regarding teaching skills and attitudes of a teacher.



Dr. D.V.S. Bhagvanulu, Director, SVEC, delivering a lecture on "Attributes of an Effective Teacher"

Session 2:

Dr. B. Mohan, Professor & Director, SVIM, delivered a lecture on "Time Management" from 12.00 PM – 1.00 PM. He discussed some key aspects of time management and practical time management skills. Also, suggested some helpful resources continue learning.

Session 3:

Dr. Madhusudan V Atre, Research Advisor, SVEC, given a talk from 2:30 PM – 3.30 PM on "Future Trends in Research: Inter-disciplinary Excellence". In his talk, he discussed about Evolution of inter-disciplinary knowledge, Nanotechnology and its applications.



Dr.

B.



Mohan, Professor & Director, SVIM, delivering a lecture on "Time Management"

Dr. Madhusudan V Atre, Research Advisor, SVEC, delivering a lecture on
"Future Trends in Research: Inter-disciplinary Excellence"

Session 4:

Dr. Babu M, Dean, International Student Affairs, SVEC, delivered a lecture on "The Joy of Teaching". He highlighted the goals of teaching, attributes of a good teacher, simple tips and things-to-avoid for effective teaching.

Dr. Babu M, Dean, International Student Affairs, SVEC, delivering a lecture on



"The Joy of Teaching"

Day 2: 21-06-2017 (Wednesday)

Session 1:

Dr. I. Sudarsan Kumar, Chief Operating Officer, SVET from 10:00 AM – 11.30 AM delivered a lecture on the topics "Outcome Based Education (OBE) and Blended/Hybrid Education". He mainly discussed on blooms taxonomy, curriculum cycle, Teaching & Learning style and modes of Blended learning. The participants are interacted and clarified their teaching issues with the resource person.

Session 2:

Ms. G. Hannah, Assistant Professor, BS&H, SVEC from 12.00 PM – 1.00 PM delivered a lecture on the topic "Importance of Communication in Teaching Learning". In her lecture, she focus on induce moral values and Set ground rules for effective classroom teaching-learning.



Dr. I. Sudarsan Kumar, Chief Operating Officer, SVET delivering a lecture on "Outcome Based Education (OBE) and Blended/Hybrid Education"



Ms. G. Hannah, Assistant Professor, BS&H, SVEC delivering a lecture on "Importance of Communication in Teaching Learning"

Session 3:

Dr. C. Subhas, Dean Academics, SVEC from 2:30 PM – 3.30 PM, delivered a lecture on “Digital e-Learning”. In his lecture discussed about learning modes, e-learning methods and Massive Open Online Courses (MOOC). The participants interacted and clarify doubts on MOOC.



Dr. C. Subhas, Dean Academics, SVEC delivering a lecture on “Digital e-Learning”

Session 4:

Dr. D.V.S. Bhagvanulu, Director, SVEC from 4:00 PM – 5.00 PM, delivered a lecture on the topics “Overview of Research Process and Formulating Research Problem”.

Day 3: 22-06-2017 (Thursday)

Session 1:

Dr. K. Ramani, Professor & Head of IT, SVEC from 10:30 AM – 11.30 AM, delivered a lecture on the topics “Research Fundamentals and Types of Research”. She also focus on scientific methods and mathematical models for research. The participants interacted and clarified their doubts with the resource person.

Session 2:

Dr. K. Khaja Baseer, Assoc. Professor of IT, SVEC from 12.00 PM – 1.00 PM, delivered a lecture on “How to Perform Systematic Literature Review (SLR)”. He discussed reasons & features of SLR, Review Process and detailed steps to do literature. The participants interacted and clarify doubts on SLR.



Dr. K. Ramani, Professor & Head of IT, SVEC delivering a lecture on
"Research Fundamentals and Types of Research"



Dr. K. Khaja Baseer, Assoc. Professor of IT, SVEC delivering a lecture on
"How to Perform Systematic Literature Review (SLR)"

Session 3:

Mr. R. Mohana Ramana, Assistant Professor, BS&H, SVEC from 2.30 PM – 3.30 PM, delivered a lecture on "Measurement and Scaling Techniques". In his lecture, discussed on sounds of measurements, Sources of errors in measurement and forecasting techniques.



Mr. R. Mohana Ramana, Assistant Professor, BS&H, SVEC delivering a lecture on "Measurement and Scaling Techniques"

Session 4:

Dr. K. Saradhi, Controller of Examinations, SVEC from 4.00 PM – 5.00 PM, delivered a lecture on "Evaluation System". He mainly focused on Academic regulations, Credit system and Internal & External evaluation of the examination. The participants interacted and clarify doubts with resource person.



Dr. K. Saradhi, Controller of Examinations, delivering a lecture on "Evaluation System".

Day 4: 23-06-2017 (Friday)

Session 1:

Dr. K. Khaja Baseer, Assoc. Professor of IT, SVEC from 10.30 AM – 11.30 AM, delivered a lecture on the topics "How to Read and Write a Technical Paper". He mainly discussed on Three pass approach, Forest & Tree concept, different types of technical papers, Paper organization and tips to read & write a technical paper. The participants interacted and clarify doubts with resource person.

Session 2:

Dr. V. R. Anitha, Professor of ECE, SVEC from 12.00 PM – 1.00 PM, delivered a lecture on the topics "Publish the Research Work and Funding Agencies for Research Proposals". In her lecture, she focus on types of manuscripts, Targeting Journals, Ethical guidelines, Indexation, Impact factors and overview on different funding agencies & its formats. The participants interacted and clarify doubts with resource person.



Dr. V. R. Anitha, Professor of ECE, SVEC delivering a lecture on "Publish the Research Work and Funding Agencies for Research Proposals"

Session 3:

Dr. B. Narendra Kumar Rao, Professor & Head of CSSE, SVEC from 2.30 PM – 3.30 PM, delivered a lecture on the topic "Data Collection and Analysis". He discussed on Types of Data with its methods, Data processing and classification of data analysis. The participants interacted and clarify doubts on Data collection.



Dr. B. Narendra Kumar Rao, Professor & Head of CSSE, SVEC delivering a lecture on "Data Collection and Analysis"

Session 4:

Mr. R. Mohana Ramana, Assistant Professor, BS&H, SVEC from 4.00 PM – 5.00 PM, delivered a lecture on the topic "Tests of Hypothesis". The participants interacted and clarify doubts with resource person.

Day 5: 24-06-2017 (Saturday)

Session 1:

Dr. G. Sasi Kumar, Professor of CSSE, SVEC from 10.30 AM – 11.30 AM, delivered a lecture on the topics "Presenting Technical Paper and Evaluation Tools for Plagiarism". He also focused on how to write a thesis. The participants interacted and clarify doubts with resource person.

Session 2:

Dr. C. K. Ashok Kumar Principal, SVCP from 12.00 PM – 1.00 PM, delivered a lecture on the topic "Patent Writing and Filing". In his lecture, discussed about overview of patents, Types of patents and Procedure for apply patent. The participants interacted and clarify doubts with resource person.



Dr. G. Sasi Kumar, Professor of CSSE, SVEC from delivering a lecture on "Presenting Technical Paper and Evaluation Tools for Plagiarism"



Dr. C. K. Ashok Kumar Principal, SVCP delivering a lecture on "Patent Writing and Filing"

Session 3 & 4:

Lab Session: Using ICT for Effective Educational Communication



Participants are actively doing lab sessions on Effective Educational Communications

At the end, the programme was concluded with a vote of thanks given by **Dr. K. Khaja Baseer**, Associate Professor of IT, SVEC.

Report on FDP



“IBM CERTIFIED APPLICATION DEVELOPER - CLOUD PLATFORM”

(14-16 November, 2016)

Faculty Development Report (FDP) was organized by Department of Information Technology, Sree Vidyanikethan Engineering College, A. Rangampet. The IBM was organized for Three day i.e., November 14-16, 2016 for the benefit of faculty of CSE, IT and CSSE. About 60 faculties are actively participated and gained useful information from all the sessions.

14-11-2016

Session 1:

Mr. C. Yukthesh, Senior Software Engineer, Compendia, handled a session from 10.30 AM – 1.30 PM, and delivered a lecture on 'IBM Bluemix Platform-as-a-Service offering. The faculties interacted with resource person and discussed about fundamentals of IBM Bluemix concepts.

Session 2:

Mr. C. Yukthesh, Senior Software Engineer, Compendia, handled a session from 2.15 PM – 4.30 PM, and delivered a lecture on 'Cloud services (monitoring, logging, scaling), and security. The faculties interacted with resource person and discussed about various applications of IBM Bluemix Watson Programming.



Fig. 1: **Mr. C. Yukthesh**, Senior Software Engineer, IBM addressing the gathering.

15-11-2016

Session 1:

Mr. C. Yukthesh, Senior Software Engineer, Compendia, handled a session from 10.30 AM – 1.30 PM, and delivered a lecture on 'Designing, developing and deploying RESTful API's'. The faculties interacted with resource person and discussed about fundamentals of IBM Bluemix concepts.

Session 2:

Mr. C. Yukthesh, Senior Software Engineer, Compendia, handled a session from 2.15 PM – 4.30 PM, and delivered a lecture on 'Cloud-based Application Life Cycle using DevOp'. The faculties interacted with resource person and discussed about various applications of IBM Bluemix Watson Programming.



Fig. 2: **Mr. C. Yukthesh**, Senior Software Engineer, IBM addressing the gathering.

16-11-2016

Session 1:

Mr. C. Yukthesh, Senior Software Engineer, Compendia, handled a session from 10.30 AM – 1.30 PM, and delivered a lecture on 'Application development using Node.JS'. The faculties interacted with resource person and discussed about fundamentals of IBM Bluemix concepts.

Session 2:

Mr. C. Yukthesh, Senior Software Engineer, Compendia, handled a session from 2.15 PM – 4.30 PM, and delivered a lecture on 'MQ messaging protocols'. The faculties interacted with resource person and discussed about various applications of IBM Bluemix Watson Programming.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, A.Rangampet, Near Tirupati-517 102

Department of Information Technology

**A Report on Three Day Staff Training Programme
on**

Networking Technologies and Configuration Issues

Under Technical Education Quality Improvement Programme (TEQIP)-II

20-22, October 2016

The department of Information Technology, SVEC, conducted a Three Day Staff Training Programme on **“Networking Technologies and Configuration Issues”**, under Technical Education Quality Improvement Programme (TEQIP-II). Mr. K. Rajanarayana, Director & Sr. Faculty & Mr. A. M. Saarathi, Sr. Faculty, Indian Institute of Hardware Technology, Visakhapatnam, delivered a session on **“Networking Technologies and Configuration Issues”** about 54 staff members of SVEC participated in this three days STP programme and get benefited.

Dr. K. Ramani, Professor & HOD, Mr. P. Bhasha and Mr. SK. Munwar, Programme Coordinators welcomed the participants.



Mr. A.M Saarathi, addressing the staff members

Mr. A. M. Saarathi, senior faculty from IIHT, deliver a lecture on Introduction to Networking Components and their functionality, Networking Topologies and their significance, Ethernet Technologies & IEEE Standards, Firewall Configuration Issues, and Wi-Fi Configuration. Hands-on training on Remote Desktop, File and Printer Sharing was conducted.



Mr. M. Raja Narayana, addressing the staff members

Mr. M. Raja Narayana, Director & senior faculty from IIHT, delivered a lecture on IP Addressing & Sub netting, Configuring Router & Switch, CISCO Routing Protocols and VLAN & Inter VLAN Configuration along with hand-on training. His discussions also focused on Windows Server Configuration, Windows Server Setup and Installation, Introduction to Microsoft Exchange Server, Services, Managing and Trouble shooting.



Hands-on Training by staff members

The session ended with interaction of the staff with the resource person. The expert clarified the doubts raised by them on Windows Server Configuration. Mr. M. Raja Narayana distributed participation certificates to the participant and concluded the programme.



Attended Participants



**A report on two-day national workshop on
“ADVANCED FINITE ELEMENT APPLICATIONS IN
DESIGN”**

1st - 2nd September, 2016

(Under TEQIP-II)

Two Day National Workshop on “**Advanced Finite Element Applications in Design**” was conducted during 1st – 2nd September, 2016 in Mechanical Engineering Department. The workshop was inaugurated by lightening lamps by the Chief Guest **Dr.P.Ravinder Reddy**, Professor, CBIT, on 1st Sept 2016 at 9.00 AM. The convener of the program Mr. M Gangaraju had given the brief introduction of the workshop. A keynote speech was delivered by the Chief Guest on FEM applications and its importance. The course work started at 9:30 am after the completion of inauguration.

The Chief Guest Dr.P.Ravinder Reddy started his valuable lecture with entitle of “Dynamic analysis of structural problems” and some important concepts which mainly focused on stress strain diagrams, theory of failures, mechanical behavior of materials, structural and dynamics of analysis, continuum mechanics and plane stress and plane strain. He also explained the concepts related to industrial and research oriented problems.

Continuity of the morning session, Mr. M.Vijay Sekhar Babu, Associate Professor, Department of Mechanical Engineering, GMRIT, given his valuable lecture on classifications of methods available for field FEA problems, major steps for using FEA analysis. He also covered the concepts on 2D- Idealizations, solids of revolutions and plane stress problems in ANSYS with procedure of solving simple problems.

The second day of the course started by Dr.V.V. Subba Rao, Professor Mechanical Engineering, JNTUK, Kakinada. Dr.V.V. Subba Rao started his valuable lecture with basic steps of FEM which includes Material Modelling of laminated composite plates having different layups in ANSYS and validation of results in static case. He also delivered the concepts related to research oriented in composites and related softwares available for analysis.

Continuity of the morning session Dr. K.C.Varaprasad, Professor & Head, Dept. of Mechanical Engineering, SVEC, delivered his lecture on modeling of

structural problems using Hypermesh, import and export of models in to Hypermesh. Certificates are distributed in the valedictory function



Dr. P.Ravinder Reddy, Professor, CBIT Hyderabad, inaugurating the programme



Dr. P.Ravinder Reddy, Professor, Department of Mechanical Engineering, CBIT Hyderabad delivering a Lecture on dynamic analysis of structural problems.



**Mr. M. Vijay Sekhar Babu, Associate Professor, GMRIT
Delivering lecture on Plane stress problems.**



**Dr. V V Subba Rao, Professor, Department of Mechanical Engineering,
JNTUK, Kakinada, delivering a lecture on composite modeling**



Dr.K.C.Varaprasad, Professor & Head, Dept. of Mechanical Engineering, clarifying the doubt expressed by the participants



Valedictory Session



Certificates Distribution to the participants



Group Photo with participants of the Program

A Two Day Faculty Development Programme on

DESIGN AND MANUFACTURING OF COMPOSITE MATERIALS

(Under TEQIP-II)
25th – 26th , November, 2016

Department of Mechanical Engineering organized a Two Day Faculty Development Programme on “**Design and Manufacturing of Composite Materials**”. It was inaugurated by the Chief Guest Dr.Partha Ghoshal, Scientist “F” & Head, Electron Microscopy Group, DMRL, Hyderabad on 25.11.2016 at 9.30 AM. A total of 19 external participants and 59 internal participants registered for the program.



Dignitaries on the dais during Inaugural Session

In the morning session on 25.11.2016, Dr.Partha Ghoshal, Scientist ‘F’ & Head, Electron Microscopy Group, DMRL, Hyderabad delivered a keynote address on *“Characterization of Advanced Materials using Various Techniques”*.



Dr.Partha Ghoshal, Scientist “F” & Head, Electron Microscopy Group, DMRL, Hyderabad delivering a keynote address on *“Characterization of Advanced Materials using Various Techniques”*

In the afternoon session on 25.11.2016, Prof. G. V. S. Nageswara Rao, Department of Metallurgical and Materials Engineering, NIT Warangal delivered a lecture on *“Nanoparticle Reinforced Metal Matrix Composites (MMnCs)”*. He explained various strengthening mechanisms, effect of nano particles on physical and mechanical properties, processing methods and applications of MMnCs. During the session, participants interacted and got their doubts clarified.



Dr. G. V. S. Nageswara Rao, Professor, Department of Metallurgical and Materials Engineering, NIT Warangal, delivering a lecture on *“Nanoparticle Reinforced Metal Matrix Composites (MMnCs)”*

The second day (26.11.2016) of the FDP started with the lecture of Dr.N.N.Kishore, Professor, Dept. of Mechanical Engineering, IIT Tirupati on “*Prediction of Failure of Composite Laminate with Circular Holes using Continuum Damage Model*”. He introduced failure modes and failure criteria of composite materials and also explained damage model, finite element formulation and problem statement. Out of his experiences he gave some case studies to solve problems related to failure of composites.



Dr.N.N.Kishore, Professor, Dept. of Mechanical Engineering, IIT Tirupati, delivered a lecture on “*Prediction of failure of composite laminate with circular holes using continuum damage model*”.

The last session of the FDP was conducted by Dr.G.Sathish Babu, Professor, Dept. of Mechanical Engineering, JNTUHCEH, Hyderabad, on “*Composite Materials: Analysis and Design*”. He explained Macromechanical behavior of a lamina. He focused mainly on characteristics of a lamina, stiffness’s, compliances and Engineering constants for orthotropic materials. He also discussed various failure theories of composites.



Dr.G.Sathish Babu, Professor, Dept. of Mechanical Engineering, JNTUHCEH, Hyderabad, lecturing on “*Composite Materials: Analysis and Design*”.

During the valedictory function, Dr. K.C.Varaprasad, Head of the Department thanked all the participants for making the Faculty Development Programme a grand success. Dr.G.Sathish Babu, Convener of the program distributed the certificates to the participants.



Distribution of Certificates to the participants during Valedictory function

A report on one week workshop on "THERMAL ENERGY SYSTEMS-OPTIMIZATION OF DESIGN FOR FLUID FLOWS AND HEAT TRANSFER"

19th - 23rd December, 2016

(Under TEQIP-II)

One week workshop on "Thermal Energy Systems-Optimization of Design for Fluid Flows and Heat Transfer" was conducted during 19th - 23rd, December, 2016 in Mechanical Engineering Department. The workshop was inaugurated by lightening lamps by the Chief Guest Dr.C.Balaji, Professor of Mechanical Engineering, IIT Madras, on 19th, December, 2016. The convener of the program Dr. Hariprasad Tarigonda has given the brief introduction of the workshop. A keynote speech was delivered by the Chief Guest on Thermal Energy Systems-Optimization of Design for Fluid Flows and Heat Transfer. The course work of the workshop started after the completion of inauguration.



Day 1 (19-12-2016): In the morning session, Dr.C.Balaji, Professor of Mechanical Engineering, IIT Madras delivered a lecture on Advances in Heat Transfer. He explained the recent developments in the field of heat transfer. He also explained the research works happening in the heat transfer laboratory of IITM. He emphasized the importance of the optimization in the design of thermal systems. In the afternoon Session, Prof. T. Srinivas, VIT University, Vellore delivered a lecture on solar energy, exergy analysis, trigeneration and MAT Lab coding. He explained about the effective utilization of solar energy, exergy analysis applied to various thermal systems and its design optimization with MAT Lab coding.

Day 2 (20-12-2016): In the morning session, Prof. R. Thundil Karuppa Raj, VIT University, Vellore given lecture on Numerical Analysis of Fluid Flows & Heat Transfer and also Hands on practice was provided to participants. In the afternoon session, he explained about the ansys software tool window in detail. ICMCFD tool in used for model creation and for meshing. The participants practiced various models and various meshing generation techniques with quality check.

Day 3 (21-12-2016): In the morning session, Dr. Kulasekaran from Fiat Chrysler Automobiles, Chennai delivered a lecurer on simulation of thermal

energy systems. He explained the Ansys fluent tool in detail and various commands used in the ansys fluent tool. Later various simulation of thermal systems were explained in Ansys fluent tool. In the afternoon session, the participants practiced simulation of various models for different boundary conditions in the ansys fluent tool.

Day 4 (22-12-2016): In the morning session, Dr.Prasad Patnaik, Professor, IIT Madras, Chennai delivered a lecture on turbulent flows and its application in heat transfer. He explained the various governing equations of fluid flows and heat transfer.He discussed the importance of turbulence in variuos applications of fluid flows and heat transfer. In the afternoon session, Dr. M. Suresh from SSN College of Engineering, Chennai given lecture on Heat pipes. He discussed the fabrication methods of heat pipes and its various practical applications. He explained about various thermal energy systems developed with application of heat pipes.

Day 5 (23-12-2016): In the morning session, Dr. P. Karthikeyan from PSG – Tech, Coimbatore given lecture on Fuel cell. He discussed the concepts of fuel cell and its various applications. He shown the some of the fuel cells wich are developed in their Lab. He explained the various materails used for manufacturing of fuel cells. In the afternoon session, Dr. N. Nallusamy from SSN College of Engineering, Chennai deliverd a lecture on Thermal energy storage systems. He explained about the various fluids used for thermal energy storage and various mehtods used for storing the thermal energy and analysis of various thermal energy systems. Finally Validictory function and certificate distribution was conducted.



Dr.C.Balaji, Professor of Mechanical Engineering, IIT Madras delivering lecture on Advances in Heat Transfer & Fluid Flows



Prof. T. Srinivas from VIT University, Vellore giving lecture on Solar energy and exergy analysis



Prof. R. Thundil Karuppa Raj from VIT University, Vellore giving hands on practice on Numerical Fluid Flows & Heat Transfer



Dr. Kulasekaran from Fiat Chrysler Automobiles, Chennai giving hands on practice on simulation of Thermal energy systems



Dr. Prasad Patnaik, Professor, IIT Madras, Chennai delivering lecture on turbulence and its application in heat transfer



Dr. M. Suresh from SSN College of Engineering, Chennai delivering lecture on Heat Pipes



Dr. P. Karthikeyan from PSG – Tech, Coimbatore discussing the concepts of Fuel cells



Dr. N. Nallusamy from SSN College of Engineering, Chennai in the session on Thermal energy storage systems