ABOUT INSTITUTION :

Santhiram Engineering College (Autonomous) is sponsored by M/s Sri ShirdiSai Educational Academy, Nandyal. SREC is established under the able guidance of Dr. M. Santhiramudu, Chairman, in the year 2007 with a noble motto "Education for Peace and Progress".

Highlights of the College:

- Received Autonomous Status.
- Accredited by NBA for the Departments of ECE and CSE.
- Accredited by NAAC with Grade-A (3.2 score)
- Recognized as Q-Mentor College by APSCHE, for guiding HEIs for accreditation.
- Listed as one of the Best Engineering College with AA+ Grade by Career 360⁰ in the year 2023.
- Recognized in GOLD CATEGORY by AICTE-CII Survey for the years 2017 & 2018 and also in PLATINUM CATEGORY in the year 2020.
- Received TWO University Gold Medals from JNTUA, Ananthapuramu.
- Received NINE Prathibha Awards from the Govt of A.P.
- SIX Patents were granted and SIX patents were approved under AICTE-KAPILA Scheme.
- Received around 50 Lakhs worth of funding projects under various schemes of UGC, AICTE, IEEE, IE and etc.

SREC VISION:

To become a nucleus for pursuing technical education and pool industrial research and developmental activities with social-conscious and global standards.

SREC MISSION:

- To provide Advanced Educational Programs and prepare students to achieve success and take leading roles in their chosen fields of specialization by arising a self-sustained University.
- To establish postgraduate programs in the current and Advanced Technologies.
- To establish an R&D Consultancy through developing Industry Institute Interaction, building up exceptional infrastructure.
- To propel every individual, realize and act for the technical development of the society.

Chief Patron

Prof. G. Ranga Janardhana
Hon'ble Vice-Chancellor, JNTUA

Patrons

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Rector, JNTUA

Prof. C. Sashidhar
Registrar, JNTUA

Program Director

Prof. B. Eswara Reddy
Dean-R&D, Director, Faculty Development Cell, JNTUA.
Secretary, ISTE AP Section

Chair Persons

Dr.M.Santhiramudu
Chairman, SREC

Er.M.Siva Ram
MD, SREC

Principal

Dr. M.V.Subramanyam
Principal, SREC

HOD-ECE

Dr.Y.Mallikarjuna Rao
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Dr.C.Shivanath Chaudhri,
Assoc.Prof, SREC
Dr.B.Divya Madhuri,
Assoc.Prof, SREC
Ms.B.Alekya Himabindu,
Asst.Prof, SREC

Five Day Faculty Development Program on

Recent Trends in VLSI Technologies and Practical Approaches towards IP Using EDA Tools

October 09-13, 2023

Organized by

Dept. of Electronics & Communication Engineering

SANTHIRAM ENGINEERING COLLEGE
(Autonomous)

Approved by A.I.C.T.E., New Delhi, Permanently Affiliated to JNT University, Ananthapuramu
Accredited by NAAC with Grade-A, Accredited by NBA (ECE & CSE)
An ISO 9001:2015 Certified Institution, 2(f) &12(B) recognition by UGC Act, 1956
NH-40, NANDYAL-518501 (Dist), A.P.
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and

Faculty Developmemt Cell
Jawaharlal Nehru Technological University Anantapuramu (JNTUA)

In association with

ISTE AP Section

5 Day FDP on
Recent Trends in VLSI Technologies and Practical Approaches towards IP Using EDA Tool

Resource Persons

- Dr.P.ChandraSekhar,
  Professor,Department of ECE, OU, Hyderabad
- Dr.B Chenna Reddy,
  VerificationEngineer, AISemiCon, Bangalore
- Dr.K Vasudeva Reddy,
  Member of Technical Staff,IP& Design Engineering , GlobalFoundries, Bangalore
- Dr.Manoj Kumar Majumder,
  Assistant Professor, ECE,IIIT-NR
- Mr. N.Nageswara Reddy ,
  Senior engineer-AMS design,CYIENTpvt ltd, Hyderabad.
- Dr. Mamidi Nagaraju,
  Technical Manager at Entuple Technologies.

Session Topics:

Session 1: Introduction and recent trends in VLSI technologies
Session 2: Brief on Bluetooth and IoT receivers
Session 3: Low noise amplifiers for RF and mm Wave applications using SOI technology
Session 4: LCVCOs for RF and mm Wave applications using SOI & bulk CMOS Technology
Session 5: Deep dive into digital fundamentals (Industry perspective)
Session 6: ASIC and verification flow- Design perspective
Session 7: Introduction on Power management IC (PMIC)
Session 8: Design of Op Amp & Band gap Reference circuit
Session 9: Low drop out (LDO) Regulators- Design tradeoffs
Session 10: DC-DC converters-Various flavors and their designs
Session 11: Practical sessions using cadence Virtuoso (two stages Op Amp)
Session 12: Practical sessions using cadence Virtuoso (Band gap Reference)

About FDP

An intensive one-week sponsored faculty Development programme is being organized for faculty of engineering and technological institutions. It is also open to persons from industry, doctoral students and faculty from different organizations.

This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Recent Trends in VLSI Technologies and Practical Approaches towards IP Using EDA Tools is being conducted at Santhiram Engineering College Nandyal under the sponsorship of JNTU Ananthapuramu .The whole course is handled by and professors from different IIT, NIT and Industry experts.

Objective:

- To train the faculty in the important area of industrial relevance through academic and industrial experts
- To provide hands on experience on the usage of various tools, models, methodologies and techniques
- To provide comprehensive idea of various industrial best practices in the field and make them adapt in their academic curriculum as case studies
- To emphasis the pedagogy of learn by doing with exposure to the state of the art commercial tool for verification purpose
- To provide training on Cadence EDA tools.

Expected Outcome:

By the end of the faculty development program, the participants got an overall idea about VLSI design creation using the Cadence EDA tool.

Important Dates:

Last Date for Registration	: 05-10-2023
Intimation of Selection	: 07-10-2023
Confirmation by the Participants	: 08-10-2023
Program Duration	: 09-10-23 to 13-10-23

Scan to Register

https://forms.gle/CbCPVdcnuhPbSX9g8

Registration :

- No Registration Fee
- Faculty / Ph. D Scholars of Electronics & Communication Engineering / Allied disciplines are eligible to attend the program.
- Participants will be selected on First-Come & First-Serve basis.
- Number of registrations limited to 25-30
- Participants are advised to bring their own laptops for practice.
- Accommodation will be provided for outstation participants on prior request.

Participation Certificate:

Certificates will be issued based on the attendence percentage and submission of feedback.