



## **INNOVATIONS BY THE FACULTY IN TEACHING AND LEARNING**

### **INNOVATIONS IN TEACHING:**

Faculty can deliver their lectures faster and more efficiently through innovative teaching methodologies. The students are able to stay up-to-date on technological developments in an efficient manner. Innovative teaching aids also help students develop rational thinking and self-awareness Enhance the amount of thought process in students' mindsets by encouraging them to be proactive. Few of The innovative teaching techniques adopted by the department are briefly summarized below:



### **1. MULTIMEDIA LEARNING (ICT CLASS ROOM)**

In this, the teacher will deliver some concepts with the aid of Software tools. These learning tools play vital role in delivering subject knowledge. The students can identify the key points of presentation easy way. Live demonstration can be an effective tool to present material in classroom and encourage student learning. Multimedia combines basic types of media into



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learning environment such as text, audio, video and graphics thus providing a powerful tool for teaching. This allows the students to pay more attention towards the concepts. It also helps the students to think and analyze the concepts in a better way.



**Execution Plan:** The teacher explains some topics in their regular teaching process using Software Tools /Animation / Videos to simplify their presentation.

**Expected Outcomes:**

1. Simple way of presenting subject knowledge than from the regular teaching practices.
2. Student can understand the concepts in a better way.

**2. E-LEARNING:**

Advanced Learners are encouraged to take up various certification courses, projects based on choice and present papers in conferences/ journals. Students and faculty members are encouraged to register for the NPTEL program/ online certification courses of their own areas of teaching and research interests, for enhancing their teaching skills, smooth conduct of the teaching process in the regular class room teaching and for understanding the potential concepts



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much effectively. Faculty members are also made as mentors for providing support to the students to complete the course. The students who have not registered for any courses are supported by providing the NPTEL video lectures in the central digital library and a databank of the CDs of all the NPTEL courses that are available in the department library.



Elite

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**TIRUMALASETTY VENKATESWARARAO**  
for successfully completing the course

### The Joy of Computing using Python

with a consolidated score of **60** %

Online Assignments	25/25	Proctored Exam	35.25/75
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Total number of candidates certified in this course: **10672**

*Devendra Jalihal*  
**Prof. Devendra Jalihal**  
Chairperson,  
Centre for Outreach and Digital Education, IITM

Jan-Apr 2023  
(12 week course)

*Prof. Andrew Thangaraj*  
**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23CS20544370228

To validate the certificate



No. of credits recommended: 3 or 4



**Execution Plan:** The students who have enrolled for different certification courses can use the infrastructure available in the department/institution even after the college timings for completing their courses and some respective faculty members are allotted for supporting them.

**Expected outcomes:** It helps to enrich the knowledge potentials of students and enhance their employability skills.



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### **Free Open Source Certification Programs**

1. <https://intellipaat.com/academy/>
2. <https://www.guvi.in/>

### **3. VIRTUAL LABS**

Virtual labs are interactive, digital simulations of activities that typically take place in physical laboratory settings.

#### **Resources**

1. <https://www.vlab.co.in/broad-area-computer-science-and-engineering>
2. <https://vlab.spit.ac.in/ai/#/experiments>
3. <http://vlabs.iitkgp.ac.in/vlt/index.html>
4. <https://praxilabs.com/>

### **4. ACTIVITY BASED LEARNING**

The Activity-based Learning philosophy is rooted in the idea that learning is best accomplished when it is inspired by the surrounding environment and motivated by optimal learning opportunities. An environment which encourages fearless exploration and the freedom to express oneself adds to the learning outcomes.

#### **Internships**

Typically, an internship consists of an exchange of services for experience between the intern and the organization. Internships are used to determine whether the intern still has an interest in that field after the real-life experience. Our students are participated in various internships activities like Codetantra, AWS, Infosys, AICTE internship programs etc.

#### **Internship Resources**

1. [https://www.amazon.jobs/en/landing\\_pages/aws-internships](https://www.amazon.jobs/en/landing_pages/aws-internships)
2. <https://internshala.com/>



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# CODETANTRA

Learn, Practice and Build



## CodeTantra Internship Certificate



**Member id:** 20KQ1A5420  
**Dept:** CSE-AIDS  
**College Name:** Pace Institute of Technology & Science

**Continues Assessments:** 37/50  
**Final test:** 38/50  
**Total Score:** 75/100

**MORABOINA MALATHI**  
*has successfully completed*

**ReactJS**  
*Skill oriented internship with a consolidated score of 75% and consolidated attendance of 83% conducted by CodeTantra Tech Solutions Pvt. Ltd.*

*[Signature]*  
**Mr. D. Chandra Sekhar**  
 Head of Programming Courses

Enrolled on: 11-07-2022  
 Issued on: 06-08-2022  
 Certificate No: CT336220806MDBPACE

*[Signature]*  
**Mr. D. Murahari Reddy**  
 Technical Trainer

Verify at [codetantra.com/verify/](https://codetantra.com/verify/) CT336220806MDBPACE - CodeTantra has confirmed the identity of this individual and his/her participation in the course

## Workshop

Workshop is a method of teaching which a mix between studio practice and a lecture is. Workshops typically take place with a small group of students (usually between 5 and 30). Workshops are designed to enhance the students' practical skills, and to teach them about the theory and context behind such practice.

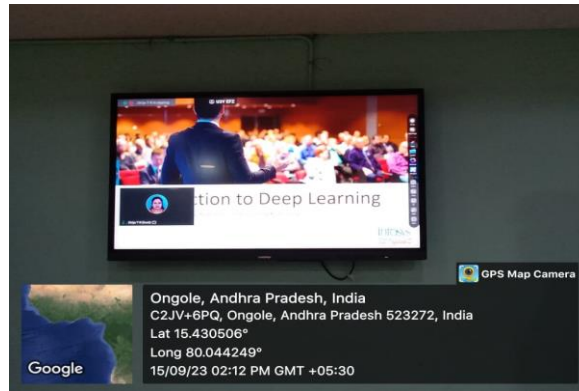




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**CERTIFICATE OF ACHIEVEMENT**

The certificate is awarded to

**Navya Sri reddy Lakku**

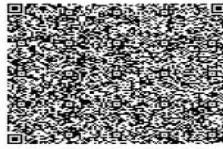
for successfully completing

**Artificial Intelligence Foundation Certification**

on September 16, 2023

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on: Saturday, September 16, 2023  
To verify, scan the QR code at <https://verify.orswtoqsnan.com>

  
Thirumala Arohi  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited

## 5. BLENDED LEARNING

It is the term given to the educational practice of combining digital learning tools with more traditional classroom face to face teaching. In a true blended learning environment, both the student and the teacher should be physically located in the same space.

