



# AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust<sup>®</sup>

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgavi)

NH 66, KottaraChowki ,Mangaluru 575006

## REPORT OF WORKSHOP CONDUCTED BY EPITAS SOFTWARE PVT LTD

<b>Name of the Event</b>	<b>Workshop on AIML, Lidar and IOT</b>
<b>Organised by</b>	<b>Epitas Software Pvt Ltd</b>
<b>Date</b>	<b>22-23<sup>rd</sup> March 2019 and 10 – 11<sup>th</sup> April 2019</b>
<b>Name of the Resource Person</b>	<b>1. Mr Suveg Iyer</b>
	<b>2. Mr Deepak N.V</b>
	<b>3. Ms Rakshitha</b>
<b>Location</b>	<b>AJIET Campus, Mangaluru</b>

### Description About event

Epitas Makerspace and Innovation Hub at AJ Institute of Engineering and Technology,(AJIET) Mangaluru, conducted a two day workshop on March 22 and 23<sup>rd</sup>, 2019 in association with Electronics and Communication Department of AJIET. The motive of the workshop was to provide a deep knowledge on various glooming areas of the present industrial domain such as Artificial Intelligence Markup Language (AIML), Lidar and Internet of Things (IOT). The workshop was organized for students of AJIET and other colleges. Around 200 students participated actively in the workshop.

The Internet of things (IOT) is the extension of Internet connectivity into physical devices and everyday objects. Embedded with electronics, Internet connectivity, and other forms of hardware (such as sensors), these devices can communicate and interact with others over the Internet, and they can be remotely monitored and controlled. IOT resource person, Mr Suveg Iyer explained the students about the extensive set of applications for IOT devices in consumer, commercial, industrial, and infrastructure applications. They also explored the programming concepts of Arduino boards for IOT applications.

Mr Deepak N.V of Epitas, explained the participants about Artificial Intelligence Markup Language (AIML). It is an XML based mark-up language which is used to create artificial

intelligent applications. With AIML it is possible to create human interfaces, keeping the implementation simple to program, easy to understand and highly maintainable. Python is one of the most widely used programming languages in the AI. He explained regarding various programming languages and Python programming for Machine Learning or Deep Learning in detail.

Another area of focus in the workshop was Lidar. Ms Rakshitha introduced the Lidar technique to the students in detail. It is a surveying method that measures distance to a target by illuminating the target with pulsed laser light and measuring the reflected pulses with a sensor. Lidar is commonly used to make high-resolution maps, with applications in geodesy, geomatics, archaeology, geography, geology, geomorphology, seismology, forestry, atmospheric physics, laser guidance, airborne laser swath mapping (ALSM), and laser altimetry. The technology is also used in control and navigation for some autonomous cars.

Students feedback was taken at the end of the workshop and it suggested that they welcomed the initiative by the EPITAS and were also willing to explore more in the same domain in the near future.

<b>No of students attended</b>	250
<b>Faculties Attended</b>	1. Mrs Arpitha Shetty, Assistant Professor ,ECE, AJIET
	2. Mrs Prateeksha Rai, Assistant Professor ,ECE, AJIET

The workshop was again extended as per the request of the students of the institution. The two day session was conducted on 10<sup>th</sup> and 11<sup>th</sup> April 2019. It was IOT, AI-ML and LIDAR session for the students of 2<sup>nd</sup> and 3<sup>rd</sup> year AJIET students.

Signature of HOD

Signature of Principal

Photos of Workshop:





