



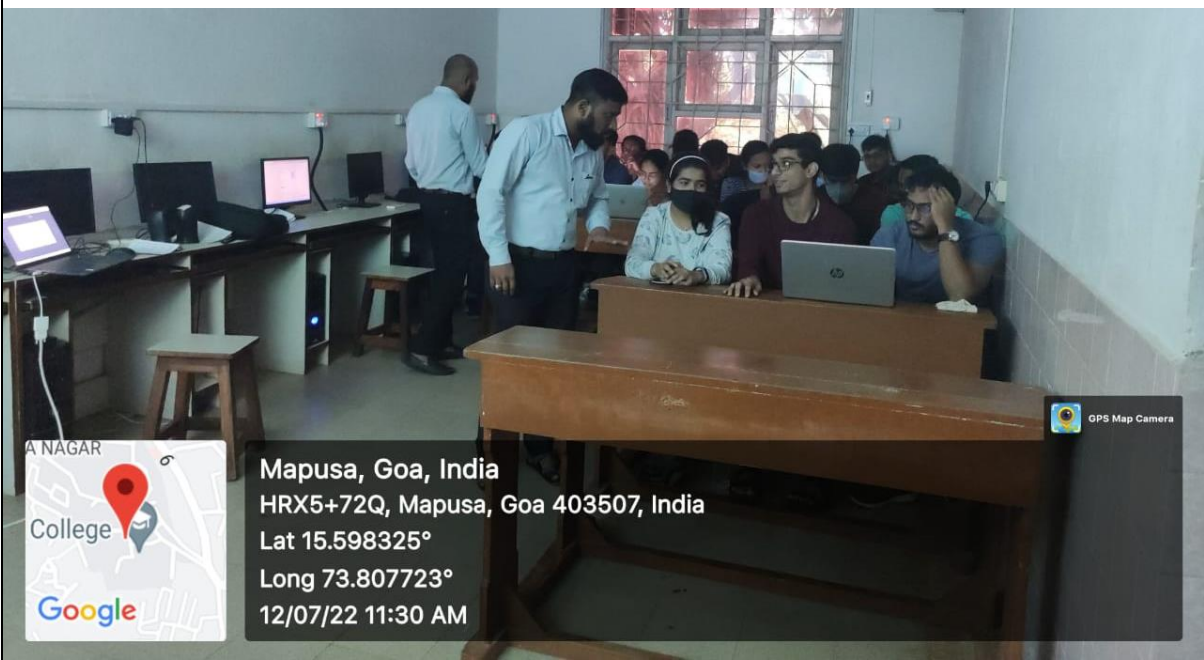
ST. XAVIER'S COLLEGE, MAPUSA GOA

College with Potential for Excellence
Re accredited by NAAC with A Grade
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Nature of Event (Workshop, Guest Lecture, Add-on Course, Seminar, etc.)	Certificate Course
Name of Department	Electronics
Faculty In-Charge	Mr. Daryl Gonsalves
Stratum of Event (College, State, Regional, National)	College
Title of Event	“Artificial Intelligence, Robotics, Internet of Things”
Date of Event	12 weeks (36 hours session) 19 th March 2022, 9 th April 2022, 16 th April, 2022, 23 rd April, 2022, 30 th April, 2022, 7 th of May 2022, 8 th July 2022, 9 th July 2022 and 12 th July 2022.
Venue	Classroom 206/Electronics Lab. St. Xavier's College, Mapusa
Resource Person details	Asier Solutions (OPC) Pvt. Ltd., Margao, Fatorda, Goa.
Objective/ Scope of Event	Hands on Training on IOT, Robotics, Artificial Intelligence and Machine Learning.
Particulars of Event	<ul style="list-style-type: none"> (i) Introduction to IOT technology, Introduction to ESP8266 Module as Microcontroller and Hands on practical's on the use of ESP8266 Wi-Fi Module. (ii) Introduction to the “BLYNK Legacy” App(Version 1), Understanding the program written for the integration, Hands-on practical's on integrating the BLYNK Legacy App and Controlling the output device using the BLYNK Legacy App. (iii) Introduction to the “BLYNK 2.0” Cloud platform, Hands-on Setting up the Web dashboard in Blynk 2.0 cloud platform and how to use it, Hands-on Setting up the Mobile dashboard in Blynk 2.0 cloud platform and how to use it, Hands-on Controlling the output device using Mobile dashboard and Web dashboard and How to add the Wi-Fi credentials Over The Air (OTA). (iv) Introduction to the Cloud service platform Adafruit cloud services, Hands-on writing the program to control the ac Appliances as an output device by creating a virtual switch on Adafruit Cloud Service,

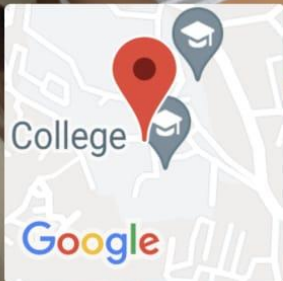
	<p>Introduction to IFFT (If This Then That) platform and Hands-on Using Google Assistant to control the output using voice commands.</p> <p>(v) Introduction to Robotics, Different components used to build robots, Understanding the concept of the motors and Motor driver and Hands-on building the Wi-Fi controlled robot.</p> <p>(vi) Introduction to App development, Understanding the use of Cloud based App development tool, Building an App for Wi-Fi controlled Robot and Using the IP address technique to make the robot work.</p> <p>(vii) Introduction to Raspberry Pi 3B, Understanding the setting up of the Pi, connecting peripherals, downloading the OS, understanding the Pi 3B board and its GPIO pins, Understanding the use of the VNC technique to use the Pi without monitor and Hands-on basics of Python Programming.</p> <p>(viii) Understanding different types of AI, Applications of AI, Understanding Different Machine Learning Algorithms (Eg:- KNN, Linear Regression, Decision Tree, Naïve Bayes)</p> <p>(ix) Hands on training on Data Collection, how to train the Model, Creating your own DataSet And training the dataset into machine, Hands on practical on IBM Machine Learning Platform.</p> <p>(x) Understanding and using Scikit Platform to Machine learning, Performing KNN Algorithm and checking the output, Performing Linear Regression Algorithm and checking the output, Performing Decision Tree Algorithm and checking the output, Performing Navie Bayes Algorithm and checking the output, Understanding the difference in quality of output at each Machine Learning Algorithm.</p>
<p>Outcome of Event</p>	<p>Participants understood concepts of IOT, Cloud Computing, Robotics, Artificial Intelligence and Machine learning. Hands on experience on the above topics.</p>
<p>Feedback</p>	<p>Good. Course was very interactive and students gained good knowledge on hands on experience on the technologies such as IOT, machine learning.</p>

Total No. of Participants	25
Photographs	04





Mapusa, Goa, India
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Goa 403507, India
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